

EPA Reg. No. 75526-1
Vol. 1

Material to be added to a Mini-Jacket (in the case where an e-Jacket exists)

Reg. No. 75526-1

Send to SIG: check box



This material is:

New stamped-accepted label

New CSF

Notification

Final Printed Label

€ Other:

Instructions: Attach this notice on top of the material. It must be clipped all together and there should be NO STAPLES in the material. Then give the material with this coversheet to staff in the Information Services Center (Room 230).

Reviewer's Name: Martha Terry

Phone: 703 308-6217 Division: AD

Date: 10/5/2006

Current as of July 12, 2006

SIG
2
11/1/06

DECISION PKG. NO.

356769

SUPM. DUE DATE

8/24/06

SUBMISSION BAR CODE #

797382

REVIEWER

MTCODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

FILE SYMBOL/REG NO.

75526-R PM 33

ACTION CODE

A-46

DESCRIPTOR

New Labels

FQPA

NFQPA

☐ CHILD RESISTANT PACKAGING:☐ REQUIRED☐ NOT REQUIRED

REGISTRATION TYPE:

☐ CONDITIONAL☐ UNCONDITIONAL☐ RESTRICTED USE

DATE ON APPLICATION

08/02/06

EPA RECEIVE DATE

08/02/06

PM RECEIVE DATE

08/02/06

METHOD OF SUPPORT

FORMULATORS EXEMPTION

☐ CITE-ALL☐ SELECTIVE☐ SUBMITTED☐ NOT SUBMITTED☐ NOT SUBMITTED☐ N/A☐ N/A

REVIEW(S) REQUESTED

DATA
PACK #DATE
SENTDUE
DATEDATE
RETURNED

CHEMISTRY

EFFICACY

ACUTE TOX.

RASSB TOX.

ENVIRON. PATH

FISH/WILDLIFE

OTHER:

STATUS

RESPONSE CODE

1170

RESPONSE DATE

AUG 18 2006



**U.S. ENVIRONMENTAL PROTECTION
AGENCY**

Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

NOTICE OF PESTICIDE:

 x Registration
 Reregistration

(under FIFRA, as amended)

EPA Reg.

Number:

75526-1

Date of

Issuance:

AUG 18 2006

Term of Issuance:

Conditional

Name of Pesticide Product:

Stalosan F

Name and Address of Registrant (include ZIP Code):

ArchAngel LLC
636 Hampshire, Suite 208
Quincy, IL 62301

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

a. Revise the "EPA Registration Number to read, "EPA Reg. No. 75526-1".

Signature of Approving Official:

Marshall Swindell
Product Manager Team-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

AUG 18 2006

Page 2

EPA Registration No. 75526-1

b. The Enforcement Analytical Method stated under MRID #465388-01C is not acceptable. A new Analytical Method must be submitted, reviewed and found acceptable by December 31, 2006.

3. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Enclosure: (Stamped Label)

[bracketed phrases are optional text]

Stalosan F

For use in livestock housing, to improve the external environment and flooring conditions around animals.

Lack of moisture assists in the reduction of non-public health microorganisms

Stalosan F adsorbs moisture, ammonia, hydrogen sulphide and other gases.

[Inhibits the growth of non public health bacteria and fungi]

[Eliminates odor causing bacteria, fungi, mold, and mildew]

[Inhibits the growth of non public health bacteria]

[Inhibits the growth of non public health fungi]

[Reduces ammonia and moisture]

[Eliminates odor causing bacteria, fungi, mold, and mildew]

[Eliminates odors associated with bacteria, mold, and mildew]

[Deodorizes], [Deodorizer]

[Controls and inhibits odor causing bacteria, fungi, mold, and mildew]

Active Ingredients:

Copper Sulfate Pentahydrate*.....2.66%

Inert Ingredients..... 98.54%

TOTAL.....100.00%

* Metallic Copper Equivalent Equal----0.68%

ACCEPTED
with COMMENTS
EPA Letter Dated:

AUG 18 2006

*Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.*

Caution

Keep Out of Reach of Children

75526-1

FIRST AID

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 75526-R

ArchAngel LLC

636 Hampshire, Suite 208

Quincy, IL 62301

EPA est. No. 75613-DNK-01

phone number 217-641-0007

25 Kg. Net Wt.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms.

Directions for Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Application methods: Limited application can be conducted by utilizing a hand cranked, spreader or duster device. When using a hand crank device, carefully deposit product from the bucket or bag into the hopper of the device using a measuring cup consistent with recommended application rates. For more extensive applications, use an electric or gas powered blower unit capable of blowing 300 - 400 cubic feet per minute. Select blowers that have vacuum capability. Determine the amount of product needed for the area of application and pour directly from bag or bucket into a temporary storage container. Use the vacuum attachments which come with these units to draw up material directly from the temporary storage container. Due to the likelihood of dust in the air, use safety goggles and a dust mask when applying with blower units. Clean up any spillage during application and dispose of according to disposal instructions shown below.

Dosage rates: Add 1 pound of **Stalosan F** to every 100 sq. ft. If the area is badly affected, increase the dosage slightly. Initially apply **Stalosan F** once a day for 3 days. Continue treatment once a week, thereafter. **Stalosan F** can be applied while animals are present.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration and in an area inaccessible to children.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Once bag is empty, dispose of in a sanitary landfill or by incineration, or; if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DATA PACKAGE BEAN SHEET

Date: 26-Oct-2005

Page 1 of 2

*** Registration Information ***

Registration: 75526-R - STALOSAN F

Company: 75526 - ARCHANGEL LLC

Risk Manager: RM 33 - Marshall Swindell - (703) 308-6341 Room# CM-2 308H

Risk Manager Reviewer: Martha Terry MTERRY

Sent Date: _____

Calculated Due Date: 20-Aug-2006

Edited Due Date: _____

Type of Registration: Product Registration - Section 3

Action Desc: (A46) NEW USE;WITH EXEMPTION;NEW FOOD USE;

Ingredients: 024401, Copper sulfate pentahydrate(2.66%)

*** Data Package Information ***

Expedite: ☐ Yes ☒ No

Date Sent: 26-Oct-2005

Due Back: _____

DP Ingredient: 024401, Copper sulfate pentahydrate

DP Title: Product chemistry for new appl

CSF Included: ☒ Yes ☐ No

Label Included: ☒ Yes ☐ No

Parent DP #: _____

Assigned To

Date In

Date Out

Organization: AD / PSB

10/27/05

Last Possible Science Due Date: 07-Apr-2006

Team Name: CTT

10/27/05

Science Due Date: 7/20/06

Reviewer Name: Juan

11/9/05

6/16/06

Sub Data Package Due Date: 7/6/06

Contractor Name: _____

*** Studies Sent for Review ***

No Studies

*** Additional Data Package for this Decision ***

Printed on Page 2

*** Data Package Instructions ***

Please review the chemistry package for this new application. Enclosed are the label, CSF, and chemistry data: MRID# 46538801, -02, -09

This application is being reviewed in conjunction with a Tolerance Exemption Petition 5F6982 for use in livestock premises.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES
Antimicrobial Division

06/16/06

DP BARCODE: D322901

MRID : 465388-01C, 465388-02, 465388-09

SUBJECT: Stalosan F

REG. NO. OR FILE SYMBOL: 75526-R

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use ☐ OR End-use Product ☒

INGREDIENTS (PC Codes): Copper sulfate pentahydrate (024401)

CAS Number: (7758-99-8)

TEST LAB: N/A

SUBMITTER: ArchAngel LLC

GUIDELINE:

COMMODITIES: Formulation

REVIEWER: Juan F. Negrón ORGANIZATION: AD

APPROVER: Karen P. Hicks APPROVED DATE: 6/22/06

COMMENT:

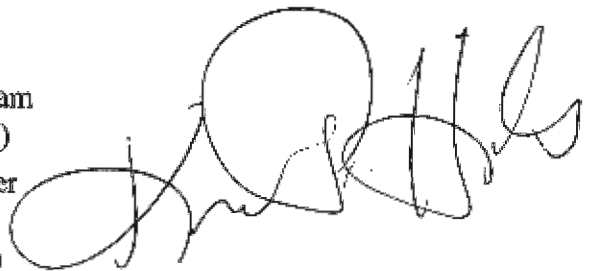
TO: Marshall Swindell / Martha Terry
PM Team 33

FROM: Juan F. Negrón, Chemist
Product Science Branch, CT Team
Antimicrobial Division (7510C)

THRU:: Karen P. Hicks, CT Team Leader
Product Science Branch
Antimicrobial Division (7510C)

THRU: Michele E. Wingfield, Chief
Product Science Branch
Antimicrobial Division (7510C)

APPLICANT: ArchAngel LLC



Action code: A46
Due date: 08/20/06

Product Formulation
Active Ingredient(s)

Copper sulfate pentahydrate

% by wt.
2.66

BACKGROUND:

The registrant, ArchAngel LLC, is submitting a new registration data package for review. The product is an integrated end-use product, Stalosan F, for non-health that controls, inhibits odor causing bacteria, fungi, mold, and mildew, and inhibits the growth of bacteria, & fungicide.

FINDINGS:

1. The Product Chemistry Reviewer has received the following documents:
 - Confidential Statement of Formula (CSF), dated 04/15/05, for the basic formulation.
 - A letter, dated 04/20/05.
 - A label, dated 05/02/05 (pin punch).
 - Application for pesticide, dated 04/20/05.
 - EPA meeting notes, dated 10/12/04.
 - Study titled "Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH, and Density/relative Density." MRID # 465388-02.
 - Study titled "Accelerated Storage Stability Study." MRID # 465388-09.
 - Study titled "Product Identity and Composition, Beginning Materials, Production Process, Formation of Impurities, Preliminary Analysis, Certified Limits, and Analytical Method. MRID #465388-01C.
 - Pesticide Chemical Code (PCC) request form, dated 06/14/06. Revised 04/14/06.
2. The CSF, dated 04/15/05, for the basic formulation is revised.

3. The CSF and the label have the same nominal.
4. The inert, [REDACTED] as been cleared by the Agency.
5. The CAS number, [REDACTED] differs from the Agency (CAS # [REDACTED]).
6. The accelerated storage stability study was conducted for 28 day at 50 °C. The results of the assay show that the active ingredient (AI) meets EPA standard certified limits. The equation to calculate the percentage by weight of the AI does not indicate the instrument response values.
7. The Agency waives 830.6317 Storage Stability of the Product and 830.6320 Corrosion Characteristics guidelines. The product is a chemical commonly used, and the components are also well known.
8. The enforcement analytical method, 465388-01C, does not provide a detailed procedure to conduct a chemical analysis including the calculation to obtain the percentage by weight of the AI.

RECOMMENDATIONS:

1. The registrant should indicate the CAS number status in finding #5.
2. The registrant needs to submit an enforcement analytical method (830.1800 guideline) with a complete detail including the equation to calculate the percentage by weight of the AI.
3. The registrant needs to submit information for those 830 Group B guidelines that shows "G" (G means gap). These guidelines are required for all end-use products.

CONCLUSION:

The Confidential Statement of Formula (CSF), dated 04/15/06, for the basic formulation is acceptable. The enforcement analytical method stated in MRID #465388-01C is not acceptable. The registrant must comply with the requirements, recommendations and findings listed above.

Inert ingredient information may be entitled to confidential treatment

PRODUCT CHEMISTRY REVIEW

4. CONFIDENTIAL STATEMENT OF FORMULA

4a. Type of formulation and source registration

Non-integrated formulation system ☐
Are all TGAs used registered? Yes ☐ No ☐
X Integrated formulation system ☒

If AME-TOO®, specify EPA Reg. # of existing product:

4b. Clearance of inerts for non-food or food use:

Cleared for food use under 40 CFR 180.1001: Yes ☒ No ☐ NA ☐

4c. Physical state of product: *Solid*

4d. The chemical IDs and analytical information (including that for the TGAs), density, pH, and flammability are consistent with that given in 830, Group B:

Yes ☒ No ☐

4e. NCs and CLs are acceptable: Yes ☒ No ☐

4f. Active ingredient(s)	<u>NC</u> (%)	<u>UCL</u> (%)	<u>LCL</u> (%)
A. Copper sulfate pentahydrate	2.66	2.79	2.53

4g. For products produced by an integrated formulation system:

All impurities of toxicological significance have a UCL?

Yes ☐ No ☐ Not applicable ☒

All impurities of $\geq 0.1\%$ in the product have been identified?

Yes ☐ No ☐ Not applicable ☒

5. PRODUCT LABEL

5a. The active ingredients statement (chemical IDs and NC) is consistent with the CONFIDENTIAL STATEMENT OF FORMULA? Yes ☒ No ☐

5b. The formulation contains one of the following:

- | | | |
|---|------------------------------|--|
| a) 10% or more of a petroleum distillate: | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| b) 1.0% or more of methyl alcohol: | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| c) Sodium nitrite at any level: | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| d) a toxic List 1 inert at any level: | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| e) arsenic in any form: | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

5c. If Yes to any of the above, does the inert ingredients statement contain a footnote indicating this? Yes ☐ No ☐ Not applicable ☒

5d. The appropriate warning statement regarding flammability or explosive characteristics of the product are listed on the label?
Yes ☐ No ☐ Not applicable ☒

5e. The storage and disposal instructions for the pesticide and container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses?
PR Notice 84-1 Yes ☐ No ☐ Not applicable ☐
PR Notice 83-3 Yes ☐ No ☐ Not applicable ☐

5f. Does the product require an expiration date at which time the NC falls below the LCL (based on the one year storage stability data or other information)?
Yes ☐ No ☒ Pending ☐

Product Chemistry (830 Series, Group A)

6a. <u>Data Requirements</u>	Acceptance of Information	MRID No.
830.1550 ¹ Product Identity	A	465388-01C
830.1600 Description of Materials	A	465388-01C
830.1620 Production Method ²	A	465388-01C
830.1650 Formulation process ³	A	465388-01C
830.1670 Formation of impurities ⁴	A	465388-01C
830.1700 Preliminary Analysis ⁵	A	465388-01C
830.1750 Certified Limits ⁶	A	465388-01C
830.1800 Analytical Method ⁷ <i>Silver by Potentiometric Titration</i>	N	465388-01C

Explanation: A=acceptable; N=not acceptable; NA=technically not applicable; G=data gap; U=requires upgrading; W=waived; E=EPA estimate.

¹See Confidential Appendix A for additional information

²For MP/EP products produced by an integrated formulation system.

³For products from a TGAI or MP.

⁴May be waived unless actual/possible impurities are of toxicological concern.

⁵Five batch analysis required for products produced by an integrated formulation system.

⁶If different from standard CLs recommended in 40 CFR 158.175, this should be discussed in Confidential Appendix A.

⁷Abbreviate method used as follows: gas chromatography (GC), infrared (IR), etc.

Physical and Chemical Characteristics (Series 830, Group B)

6b. <u>Physical/Chemical Properties*</u>	Acceptance of data	Value or qualitative description	MRID No.
830.6302 Color	A	Pinkish	465388-02
830.6303 Physical State	A	Solid, powder	465388-02
830.6304 Odor	A	Slightly sour	465388-02
830.6313 Stability to Normal and Elevated Temperatures, Metals and Metal Ions	NA		
830.6314 Oxidation/Reduction; chemical incompatibility	A	Compatible	465388-02
830.6315 Flammability/Flame Extension	G		
830.6316 Explodability	G		
830.6317 Storage Stability	W	Accelerated storage stability (28days) study.	465388-09
830.6319 Miscibility ²	NA		
830.6320 Corrosion Characteristics	W		
830.6321 Dielectric Breakdown Voltage	G		
830.7000 pH	A	4.62 ± 0.01	465388-02
830.7050 UV/ Visible absorption	NA		
830.7100 Viscosity			
830.7200 Melting Point/Melting Range	NA		
830.7220 Boiling Point/Boiling Range	NA		
830.7300 Density/Relative Density/Bulk Density	A	Pour density 0.683 g/ml ± 0.002	465388-02
830.7370 Dissociation Constants in Water	NA		
830.7520 Particle size, diameter distribution	NA		
830.7550 Partition coefficient, (n-Octanol/Water shake flask method)	NA		
830.7560 Partition coefficient, (n-Octanol/Water generator column method)	NA		
830.7570 Partition coefficient, (n-Octanol/Water by liquid chromatography)	NA		
830.7840 Water Solubility: Column elution; shake flask method	NA		
830.7860 Water Solubility: Generator column method	NA		
830.7950 Vapor Pressure	NA		

Explanation: A=acceptable; N=not acceptable; NA=technically not applicable; G=data gap; U=requires upgrading; W=waived; F=EPA estimate; * Provide brief description, e.g., color--yellow or property value, e.g., density 1.25 g/cc; Unless otherwise indicated, the property should be at 25EC; ¹ If product is dispersible with water; ² If product is an emulsifiable liquid.

CHEMICAL NAME/PESTICIDE CHEMICAL CODE (PCC)

REQUEST FORM

CR# 06-0274

REQUESTOR NAME: Juan F. Negrón		Request date: 06/14/06	
Tel: 703-308-8116	ORG.: AD	ROOM: S-8848	MAIL CODE: 7510P

CSF ATTACHED:

☒ YES

If CSF is attached complete Item A and the chemical name in item C.

☐ NO

If CSF is not attached complete Item A through C.

A. INFORMATION REQUIRED:

% Check Applicable Category

- ☐ Provide PCC and Tolerance Exemption Status For Food-Use Inert ingredient (s).
☒ Provide PCC for Non-Food Use inert ingredient (s).
☐ Provide PCC for Active Ingredient (s).
☐ Provide PCC for Dye.
☐ Determine if Fragrance is Acceptable for Use In Formulation.
☐ Other (Describe): _____

B. PESTICIDE PRODUCT INFORMATION:

EPA Reg. No/File Symbol: 75525-R	Product Name: Stalosan F
Registrant: ArchAngel LLC	Food-Use Pesticide: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Percent in Formulation (For Fragrance /Dyes)	

C. INGREDIENT INFORMATION:

Ingredient No.1

INFORMATION REPORTED:

Chem. Name: [REDACTED]	PCC: [REDACTED]
Synonym: [REDACTED]	TOL. STATUS:
CAS Reg. No.:	OTHER INF.: NON-FOOD USE

Ingredient No.2:

Chem. Name:	PCC:
Trade Name:	TOL. STATUS:
CAS Reg. No.:	OTHER INF.:

Ingredient No.3

Chem. Name:	PCC:
Trade Name:	TOL. STATUS:
CAS Reg. No.:	OTHER INF.:

Ingredient No.4:

Chem. Name:	PCC:
Trade Name:	TOL. STATUS:
CAS Reg. No.:	OTHER INF.:

Completed By: Alfonso DebesaDate Completed: 6/14/06

Inert ingredient information may be entitled to confidential treatment

DATA PACKAGE BEAN SHEET

Decision #: 356769

DP #: (322903)

Date: 26-Oct-2005

Page 1 of 2

*** Registration Information ***

Registration: ~~71526~~ - STALOSAN FCompany: ~~75526~~ - ARCHANGEL LLC

Risk Manager: RM 33 - Marshall Swindell - (703) 308-6341 Room# CM-2 306H

Risk Manager Reviewer: Martha Terry MTERRY

Sent Date: _____

Calculated Due Date: 20-Aug-2006

Edited Due Date: _____

Type of Registration: Product Registration - Section 3

Action Desc: (A46) NEW USE; WITH EXEMPTION; NEW FOOD USE;

Ingredients: 024401, Copper sulfate pentahydrate(2.66%)

*** Data Package Information ***

Expedite: ☐ Yes ☒ No

Date Sent: 26-Oct-2005

Due Back: _____

DP Ingredient: 024401, Copper sulfate pentahydrate

DP Title: Acute Tox Data to support a new application

CSF Included: ☒ Yes ☐ NoLabel Included: ☒ Yes ☐ No

Parent DP #: _____

Assigned To

Date In

Date Out

Organization: AD / PSB

Team Name: CTT

Reviewer Name:

Contractor Name:

Last Possible Science Due Date: 07-Apr-2006

Science Due Date: 7/20/06

Sub Data Package Due Date: 7/6/06

*** Studies Sent for Review ***

No Studies

*** Additional Data Package for this Decision ***

Printed on Page 2

*** Data Package Instructions ***

Please review the acute toxicity data submitted in support of this application. The MRID#s are: 46538803, -04, -05, -06, -07, -08. A proposed label, and a CSF are also included.

This application is being reviewed in conjunction with a Tolerance Exemption Petition 5F6982 for use in livestock premises.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

June 13, 2006

MEMORANDUM

Subject: Data Package D322903
Stalosan F, EPA File Symbol 75526-R

From: Wallace Powell, Biologist
Product Science Branch
Antimicrobials Division (7510P)

Wallace Powell
6/13/06

Through: Karen P. Hicks, Team Leader
Chemistry/Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Karen P. Hicks
6/13/06

Michele E. Wingfield, Chief
Product Science Branch
Antimicrobials Division (7510P)

To: Marshall Swindell, Product Manager, Team 33
Martha Terry, Team Reviewer, Team 33
Regulatory Management Branch I
Antimicrobials Division (7510P)

BACKGROUND

The applicant, ArchAngel LLC, has submitted studies for acute oral toxicity, acute dermal toxicity, acute inhalation toxicity, primary eye irritation, primary skin irritation, and skin sensitization - MRIDs 46538803 through 46538808, respectively. Reviews of the studies are attached to this memorandum. The studies were submitted in support of Stalosan F, an adsorbent for use in livestock housing. The product is labeled with the sole active ingredient copper sulfate pentahydrate, 2.66% by weight.

RECOMMENDATION

The submitted studies are acceptable. The test material identified in the study reports apparently represents the subject product. The resulting acute toxicity regulatory profile for Stalosan F is as follows:

870.1100	Acute oral toxicity	MRID 46538803, submitted	Acceptable, Tox Category IV
870.1200	Acute dermal tox.	MRID 46538804, submitted	Acceptable, Tox Category IV
870.1300	Acute inhalation tox.	MRID 46538805, submitted	Acceptable, Tox Category IV
870.2400	Eye irritation	MRID 46538806, submitted	Acceptable, Tox Category III
870.2500	Skin irritation	MRID 46538807, submitted	Acceptable, Tox Category IV
870.2600	Skin sensitization	MRID 46538808, submitted	Acceptable, Non-sensitizer

Product labeling

The first-aid and human-hazard precautionary statements in the proposed label (EPA Received date 5/2/2005) are acceptable.

DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (OPPTS 870.1100)

Product Manager: Marshall Swindell
MRID No.: 46538803

Reviewer: W. Powell 6/13/2006
DP Barcode: D322903

Study Completion Date: 3/10/2005
Report/Study No.: 16447

Testing Laboratory: Product Safety Laboratories – Dayton, New Jersey

Author: Daniel J. Merkel

GLP Compliance Statement (40 CFR §160.12): Included

Test Material: Stalosan F, a pinkish powder

Dosage: 5 g per kg body weight, dosed as 40% w/w in distilled water

Species: Rat, Sprague-Dawley derived (3 females)

Weight: 189-209 g

Age: 11-12 weeks at start of testing

Source: Ace Animals, Inc., Boyertown, PA

Summary:

1. **LD₅₀:** >5000 mg/kg (females)
2. **Tox. Category:** IV
3. **Classification:** Acceptable

Procedure (Deviations from Guidelines):

No deviations from Guidelines were noted.

Results:

The study was conducted as a limit test by the Up-And-Down Method. Each animal survived, gained weight, and appeared active and healthy during the 14-day observation period. Clinical and post-mortem findings were unremarkable. The LD₅₀ was greater than 5000 mg/kg in female rats. The results place the test substance in acute oral toxicity Category IV.

DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (OPPTS 870.1200)

Product Manager: Marshall Swindell
MRID No.: 46538804

Reviewer: W. Powell 6/13/2006
DP Barcode: D322903

Study Completion Date: 3/10/2005
Report/Study No.: 16448

Testing Laboratory: Product Safety Laboratories – Dayton, New Jersey

Author: Daniel J. Merkel

GLP Compliance Statement (40 CFR §160.12): Included

Test Material: Stalosan F, a pinkish powder

Dosage: 5 g per kg body weight, applied as a dry paste 60% w/w in distilled water

Species: Rat, Sprague-Dawley derived (5 per sex)

Weight: Males 344-360 g, Females 212-224 g

Age: 10-11 weeks

Source: Ace Animals, Inc., Boyertown, PA

Summary:

1. **LD₅₀** (males, females, combined): >5000 mg/kg
2. **Tox. Category:** IV
3. **Classification:** Acceptable

Procedure (Deviations from Guidelines):

Relative Humidity was not listed in the study report. This should not affect the study outcome. No other deviations from Guidelines were noted.

Results:

All animals survived the observation period. Acute dermal toxicity Category IV is indicated based on the limit test.

Dosage (mg/kg)	Reported Mortality (Number Deaths/Number Tested)		
	Males	Females	Combined
5000	0/5	0/5	0/10

Observations:

Each animal survived, gained weight, and appeared active and healthy during the 14-day observation period. Clinical and post-mortem findings were unremarkable.

DATA REVIEW FOR ACUTE INHALATION TOXICITY TESTING (OPPTS 870.1300)

Product Manager: Marshall Swindell
MRID No.: 46538805

Reviewer: W. Powell 6/13/2006
DP Barcode: D322903

Study Completion Date: 3/10/2005
Report/Study No.: 16449

Testing Laboratory: Product Safety Laboratories – Dayton, New Jersey

Author: Daniel J. Merkel

GLP Compliance Statement (40 CFR §160.12): Included

Test Material: Stalosan F, a pinkish powder
Dosage concentration: 2.07 mg/L

Species: Rat, Sprague-Dawley derived (5 per sex)
Weight: Males: 223-245 g, Females 176-200 g
Age: 8-9 weeks
Source: Ace Animals, Inc., Boyertown, PA

Summary:

1. **LC₅₀** (Males, Females, Combined): >2.07 mg/L
2. **MMAD:** 2.8 µm
3. **Tox. Category:** IV
4. **Classification:** Acceptable

Procedure:

No deviations from Guidelines were noted.

Test material was prepared by milling and was applied to nose-only exposure chamber by a dust generator. Mass median aerodynamic diameter (MMAD) was based on graphic analysis of particle size distribution as measured with a cascade impactor for two samples taken at suitable times during the exposure period. Exposure was 4 hours plus 1 minute for 99% atmosphere equilibration. Chamber concentration was measured gravimetrically based on samples taken at 6 intervals from the breathing zone.

Results:

All animals (5 per sex) survived the 14-day observation period following a 4-hour exposure to a test atmosphere at a concentration of 2.07 mg/L. Acute inhalation toxicity Category IV is therefore indicated based on the limit test.

In-chamber and post-exposure clinical signs during the 14-day observation period: none noted. All animals gained body weight and appeared active and healthy during the observation period. Necropsy signs: no gross abnormalities.

Exposure period data are indicated in the following tables.

Chamber Atmosphere (averages)

Exposure Concentration (mg/L)	MMAD (μm)	GSD (μm)	% Particles	
			<1.1 μm	<4.7 μm
2.07 mg/L	2.8	2.04	10.0	77.8

Chamber Environment

Chamber Volume	6.7 L
Airflow	31.6 to 31.9 Lpm
Temperature	21 to 22 °C
Relative Humidity	41 to 48 %

DATA REVIEW FOR ACUTE EYE IRRITATION TESTING (OPPTS 870.2400)

Product Manager: Marshall Swindell
MRID No.: 46538806

Reviewer: W. Powell 6/13/2006
DP Barcode: D322903

Study Completion Date: 3/10/2005
Report/Study No.: 16450

Testing Laboratory: Product Safety Laboratories – Dayton, New Jersey

Author: Daniel J. Merkel

GLP Compliance Statement (40 CFR §160.12): Included

Test Material: Stalosan F, a pinkish powder. Prepared for dosing by grinding.
Dosage: 0.1 mL

Species: Rabbit, New Zealand albino (3 males)
Weight: Not Indicated
Age: Young adult (not further specified)
Source: Robinson Services, Inc., Clemmons, NC

Summary:

1. **Tox. Category:** III
2. **Classification:** Acceptable

Procedure (Deviations from Guidelines): No deviations noted

Results:

No corneal opacity was observed. Mild iridal involvement, grade 1 on the Draize scale, was observed in 3/3 animals at 1 hour, clearing in all animals by 24 hours. Moderate conjunctival redness, grade 2 on the Draize scale, was observed in 3/3 animals 1 hour post-instillation and persisted in 2/3 animals through 48 hours. 'Positive' degree of conjunctival redness cleared in all animals by 72 hours. No conjunctival swelling (chemosis) was observed. The study results place the test material in Category III for eye irritation. The test material can be considered a mild eye irritant in the study.

Observations	Number 'Positive' / Number Tested			
	Hour			
	1	24	48	72
Cornea	0/3	0/3	0/3	0/3
Iris	3/3	0/3	0/3	0/3
Conjunctivae:				
Redness	3/3	2/3	2/3	0/3
Chemosis	0/3	0/3	0/3	0/3

DATA REVIEW FOR ACUTE SKIN IRRITATION TESTING (OPPTS 870.2500)

Product Manager: Marshall Swindell
MRID No.: 46538807

Reviewer: W. Powell 6/13/2006
DP Barcode: D322903

Study Completion Date: 3/10/2005
Report/Study No.: 16451

Testing Laboratory: Product Safety Laboratories – Dayton, New Jersey

Author: Daniel J. Merkel

GLP Compliance Statement (40 CFR §160.12): Included

Test Material: Stalosan F, a pinkish powder. Applied as a paste, mixed 60% w/w with distilled water

Dosage: 0.5 g

Species: Rabbit, New Zealand albino (2 males, 1 female)

Weight: Not specified

Age: Young adult (not further specified)

Source: Robinson Services, Inc., Clemmons, NC

Summary:

1. **Tox. Category:** IV
2. **Classification:** Acceptable

Procedure (Deviations from Guidelines): No deviations noted

Results:

No erythema or edema was observed. All animals appeared active and healthy during the study. The results place the test material in Tox Category IV for skin irritation. The test material can be considered non-irritating in this study.

DATA REVIEW FOR DERMAL SENSITIZATION TESTING (OPPTS 870.2600)

Product Manager: Marshall Swindell
MRID No.: 46538808

Reviewer: W. Powell 6/13/2006
DP Barcode: D322903

Study Completion Date: 3/10/2005
Report/Study No.: 16452

Testing Laboratory: Product Safety Laboratories (PSL) – Dayton, New Jersey

Author: Daniel J. Merkel

GLP Compliance Statement (40 CFR §160.12): Included

Test Material: Stalosan F, a pinkish powder. Ground and applied as 0.4 g of a 65% w/w mixture in mineral oil for induction, 0.4 ml of 33% w/w in mineral oil for challenge.

Positive Control Material: alpha-hexylcinnamaldehyde technical grade for induction, 75% w/w in mineral oil for challenge

Species: Guinea pig, Hartley albino

Number: 4 (males) in preliminary irritation screening for main study;
20 (females) in Test group of main study;
10 (males and females) in Test group of positive control study;
10 (females) in Naive Control group of main study;
5 (males and females) in Naive Control group of positive control study

Age and Weight:

Animals in main study: young adults.

Animals in Test and Naive Control groups of main study:

380-447 grams initial weight.

Animals in positive control study: 441-587 grams, age not stated

Source: Elm Hill Breeding Labs – Chelmsford, MA

Method: Buehler

Summary:

1. **Outcome:** Test material was not a dermal sensitizer.
2. **Classification:** Acceptable

Procedure (Deviations from Guidelines):

Although no screening data were given to support the selection of the challenge concentration in the historical positive control study, the naive control data may be considered sufficient in this study.

In the definitive (main, not positive control) study, induction concentration at first glance would appear insufficient based on low erythema response. However, this appears to have been unavoidable. According to the study report, "Preliminary solubility testing conducted by PSL indicated that concentrations in excess of 65% were too dry to allow for adequate contact with the skin."

Results:

In the main study, erythema response to challenge was similar between test group and naive control group. Thus, the test substance did not elicit contact hypersensitivity.

In the positive control study, erythema response to challenge was significantly greater in the test group than in the naive control group. Thus, the positive control data requirement is fulfilled.

The dosing concentrations selected for test substance and positive control substance appear appropriate.

Positive control study was conducted within 6 months of main study, as required.

Receipt for Section 3



§ 87382

Regulatory Type: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Is the product? ☒ Yes ☐ No

Application Type: Pending Product Amendment

Biologic: ☐ Yes ☒ No

Company: 75626 AFCHAMDEL LLC V

Risk Manager: Antimicrobial Division, Risk Management Team 33

Product #: 75626-P Product Name: STALOSAN F

Overdose:

Me Too Section 3: Me Too Product Name:

Application Date: 02-Aug-2006 ☒ Off Rec'd Date: 02-Aug-2006 ☒

Front End Date: 02-Aug-2006 ☒ Risk Manager Send Date: 02-Aug-2006 ☒

PFS Due Date: Negotiated Due Date:

OPF Target Date:

Fast Track: ☐ New Ingredient: ☐

Receipt Description:

NEW LABELS

New Drug Form:

Drug Form:

New Drug Form:

Drug Form:

Form A: ☐ Consensus Date:

Form B: ☐ Consensus Date:

Print Letter

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Tracking

Receipt Content



Robert Brennis
<bbrennis@lewisharrison.co
m>

08/02/2006 05:27 PM

To Martha Terry/DC/USEPA/US@EPA, Marshall
Swindell/DC/USEPA/US@EPA
cc "Kent Adams (E-mail)" <kentadams@adams.net>
bcc
Subject Revised label

Martha and Marshall -

Thank you for the call you made to me this morning and clarifying issues with the label. I have made all of the changes you had indicated and have attached the label to this email for your review. We moved the Ingredient Statement over the Signal Word, we changed any reference to bacteria or fungi inhibition to non public health, and most significantly, we identified the specific methods of application for this product and added appropriate wording.

I appreciate your efforts and hope to obtain the registration soon. If you are going to issue the registration, please call me so that I can pick it up or obtain it quickly.

Bob

Robert S. Brennis
Lewis & Harrison
122 C St. NW, Suite 740
Washington, DC 20001
Phone: 202-393-3903 ext. 20
Fax: 202-393-3906



Stalosan F label Aug2.doc



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

D. Edwards
(7570)

JAN 11 2006

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

The Honorable James M. Talent
United States Senator
Three City Place Drive, Suite 1020
St. Louis, MO 63141

***Product ingredient source information may be
entitled to confidential treatment***

Dear Senator Talent:

Thank you for your December 12, 2005, letter on behalf of your constituent, Jesse Heimer of ArchAngel, LLC. Mr. Heimer has asked for assistance in getting his company's product, Stalosan F, registered in the United States with EPA. Currently, this product is produced by a [REDACTED] and is marketed in Europe as an odor abatement product for livestock. We appreciate Mr. Heimer's concerns and are working to assist him in the registration of this product.

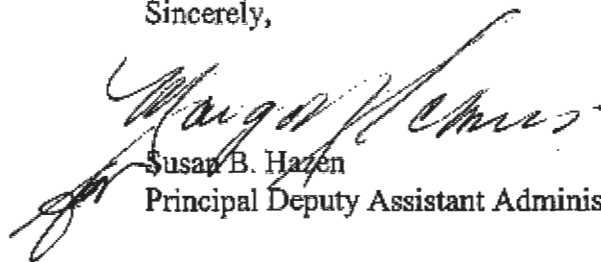
There are several key areas I would like to address in Mr. Heimer's letter. Mr. Heimer has expressed concerns that his company has invested three years and considerable resources in its efforts to register Stalosan F in the United States. As is customary for anyone seeking an EPA registration, we held pre-registration meetings with ArchAngel, LLC to inform them of the registration requirements as they apply to this product. Subsequent to these meetings, ArchAngel submitted its initial registration application on April 20, 2005. Unfortunately, the application did not include data to support a tolerance exemption, and we were not able to process the application. A tolerance exemption is necessary because the product will be used in facilities where animals are present, and there could be product residues in the meat or meat by-products. We informed ArchAngel of this requirement and asked the company to submit a tolerance exemption petition, which we received on August 10, 2005.

Additionally, Mr. Heimer noted the product should not be subjected to the same efficacy tests as liquid disinfectants. This efficacy data must be submitted to EPA with the application for registration only for products making public health claims. We are not requiring submission of efficacy data to support the proposed uses of Stalosan F because, as proposed for use in the United States, Stalosan F would be produced as an antimicrobial microbiocide for use in livestock odor abatement in confined spaces (e.g., barns, stables), which is not a public health claim. However, regardless of the physical form of the product, if public health or marketing claims were to be submitted to EPA on the product label for Stalosan F, then performance data that meet our current efficacy requirements would be required. All applicants are required to develop data to support the claims made on the product label.

As you know, in January 2003, the Pesticide Registration Improvement Act (PRIA) was enacted. This law established a fee structure and timelines for Agency review of applications for registration. Under PRIA, the due date for an Agency determination on the Stalosan F application is August 2006. At this time, the Agency is reviewing the data submitted to support the Stalosan F application. Barring any unforeseen issues, the Agency expects to make a final determination on the Stalosan F application in spring of 2006, well in advance of the PRIA due date.

Again, thank you for your letter and for bringing this matter to my attention. I hope that this information will prove to be helpful to you and Mr. Heimer. If you have any further questions, please contact me, or your staff may contact Betsy Henry in our Office of Congressional and Intergovernmental Relations at 202-564-7222.

Sincerely,



Susan B. Hazen
Principal Deputy Assistant Administrator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

7506C/OPP/FEAD/CSB/R. Jackson/308-2952/December 22, 2005

V:\PSPS\Lets2005\

bcc: TS AL HOLD(7506C) Susan Laing (7510C) Martha Terry (7510C) Marshall Swindell (7510C) Dennis Edwards (7510C)

Product ingredient source information may be entitled to confidential treatment

The Honorable James M. Talent
United States Senator
Three City Place Drive
Suite 1020
St. Louis, MO 63141

Dear Senator Talent:

Thank you for your December 12, 2005, letter on behalf of your constituent, Jesse Heimer of ArchAngel, LLC. Mr. Heimer has asked for assistance in getting his company's product, Stalosan F, registered in the United States with EPA. Currently, this product is produced by a [REDACTED] and is marketed in Europe as an odor abatement product for livestock. We appreciate Mr. Heimer's concerns and are working to assist him in the registration of this product.

There are several key areas I would like to address in Mr. Heimer's letter. Mr. Heimer has expressed concerns that his company has invested three years and considerable resources in its efforts to register Stalosan F in the United States. As is customary for anyone seeking an EPA registration, we held pre-registration meetings with ArchAngel, LLC to inform them of the registration requirements as they apply to this product. Subsequent to these meetings, ArchAngel submitted its initial registration application on April 20, 2005. Unfortunately, the application did not include data to support a tolerance exemption, and we were not able to process the application. A tolerance exemption is necessary because the product will be used in facilities where animals are present, and there could be product residues in the meat or meat by-products. We informed ArchAngel of this requirement and asked the company to submit a tolerance exemption petition, which we received on August 10, 2005.

Additionally, Mr. Heimer noted the product should not be subjected to the same efficacy tests as liquid disinfectants. All applicants are required to develop data to support the claims made on the product label. We are not requiring submission of efficacy data to support the proposed uses of this product because, as proposed for use in the United States, Stalosan F would be produced in granular form as an antimicrobial microbiocide for use in livestock odor abatement in confined spaces (e.g., barns, stables), which is not a public health claim. These data must be submitted to EPA at the time of application for registration only for products making public health claims. Further, regardless of the physical form of the product, if public health label or marketing claims were to be submitted to EPA, then performance data that meet our current efficacy requirements would be required.

CONCURRENCES

SYMBOL	7506C	7510C	7510C	FEAD	7501-C	OPPTS	
SURNAME	Kesler	Paul	Laing	Laing	Laing	Laing	
DATE	12/22/05	12/22/05	12/22/05	12/22	12/23/05	12/29/05	

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Again, thank you for your letter and for bringing this matter to my attention. I hope that this information will prove to be helpful to you and Mr. Heimer. If you have any further questions, please let me know or your staff may contact Betsy Henry in our Office of Congressional and Intergovernmental Relations at 202-564-7222.

Sincerely yours,

Susan B. Hazen
Principal Deputy Assistant Administrator

Correspondence Management System

Tracking Document

Control No.: AL-05-001-8847
Status: Pending

Due Date: Jan 04, 2006
Letter Date: Dec 12, 2005
Received Date: Dec 21, 2005
Close Date: N/A

PA due date: 12/29/05

of Extensions: 0

Notes:

Alt No.:

File Code: 141-A CONGRESSIONAL CORRESPONDENCE

From: James Talent

Organization: United States Senate
Street: SR-493 Russell Senate Office Building
City/State/Zip: Washington / DC / 20510
Country: USA

Committee:

Sub Committee:

Constituent: JESSE HEIMER

To:

To Org:

Subject: REQUEST A WRITTEN REPORT ON THE CURRENT STATUS OF THE APPLICATION ON THE REGISTRATION OF STALOSAN F

Signature: AA-OPPTS-Assistant Administrator - OPPTS

Signature Date: N/A

Instruction Codes: AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS

Instruction Notes:

Lead Author:

Lead Author Due Date: N/A

Lead Author Complete Date: N/A

Lead Author Office:

Lead Author Assigned Date: N/A

Lead Author Instruction:

Supporting Author:

CC: BETSY HENRY, Region 7

Lead Info:

Assigner	Office	Assignee	Assigned Date	Due Date	Instructions	Completed Date
Cassandra Eades	OCIR	OPPTS	Dec 21, 2005	Jan 04, 2006	AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS	N/A
Zelma Taylor	OPPTS	OPPTS-OPP	Dec 21, 2005	Dec 30, 2005	Prepare draft response for AA/OPPTS Signature	N/A

Support Info:

Assigner	Office	Supporting Assignee	Assigned Date
No records found			

Assignment History:

Assigner	Office	Action	Date of Action
Cassandra Eades	OCIR	Assign OPPTS as lead office	Dec 21, 2005
Zelma Taylor	OPPTS	Assign OPPTS-OPP as lead office	Dec 21, 2005

Assignment Comments:

Commentator	Comment	Date of Comment
No records found		

JAMES M. TALENT
MISSOURI
http://talent.senate.gov

CHAIRMAN
SUBCOMMITTEE ON SEAPOWER
CHAIRMAN
SUBCOMMITTEE ON MARKETING, INSPECTION
AND PRODUCT PROMOTION

DEPUTY MAJORITY WHIP

United States Senate

December 12, 2005

451 RUSSELL SENATE OFFICE BUILDING
WASHINGTON, DC 20510
(202) 224-6154
FAX (202) 226-1518

COMMITTEES
ARMED SERVICES
AGRICULTURE, NUTRITION AND FORESTRY
ENERGY AND NATURAL RESOURCES
SPECIAL COMMITTEE ON AGING

Mr. Charles L. Engebretsen
Associate Administrator of Congressional and Intergovernmental Affairs
Environmental Protection Agency
1200 Pennsylvania Avenue, Northwest
Room 3428 ARN
Washington, D.C. 20460

Dear Mr. Engebretsen:

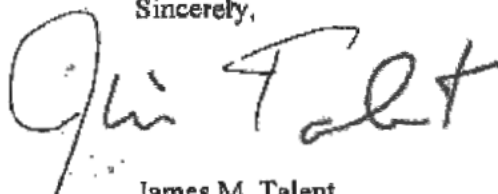
I am writing to you on behalf of my constituent, Jesse Heimer, and his company, ArchAngel, LLC, and am enclosing a copy of his letter to me regarding his company's desire to have Stalosan F, (Environmental Protection Agency (EPA) application number: 75526-R) approved by your agency.

Mr. Heimer has told me that after a meeting with EPA officials in October 2004, his company complied with all recommendations, developed the necessary data and submitted an application on April 20, 2005, requesting acceptance of this registration request. Mr. Heimer went on to state that this was no small feat for a small business such as his company.

Under the circumstances, I would be most grateful if you would review my constituent's file and furnish me a written report on the current status of his company's application. Furthermore, I would appreciate your extending all possible favorable and expeditious consideration to his application, consistent with your regulations, to the end that ArchAngel, LLC, may receive as soon as possible registration approval for Stalosan F.

Thank you for your cooperation and assistance, and I will wait receiving your written reply on behalf of my constituent in the early future. Please respond to my St. Louis office which is located at Three City Place Drive, Suite 1020, St. Louis, Missouri 63141.

Sincerely,



James M. Talent
United States Senator

JMT/dd
Enclosure

THREE CITY PLACE DRIVE
SUITE 1020
ST. LOUIS, MO 63141
PHONE (314) 432-5211
FAX (314) 432-5894

1721 WEST EMBROIDER
SUITE 301
SPRINGFIELD, MO 65807
PHONE (417) 831-2735
FAX (417) 831-2407

122 EAST HIGH STREET, 2ND FLOOR
JEFFERSON CITY, MO 64101
PHONE (573) 638-1070
FAX (573) 638-3881

WHITTAKER FEDERAL COURTHOUSE
400 EAST 5TH STREET
SUITE 40 PLAZA LEVEL
KANSAS CITY, MO 64108
PHONE (816) 421-1838
FAX (816) 421-2562

339 BROADWAY, ROOM 136
CAPE GIRARDEAU, MO 63701
PHONE (573) 651-0864
FAX (573) 334-4278

***Product ingredient source information may be
entitled to confidential treatment***



Arch Angel, LLC

636 Hampshire St.
Quincy, IL 62301

Mrs. Katie Smith
Senior Legislative Assistant to Senator Jim Talent
493 Russell Building
Washington, D.C. 20510

Dear Katie:

It was a pleasure talking to you today about our Company; our products (including Stalosan F™, the livestock odor abatement product); current issues related to US registration of Stalosan F™; and other related matters. I'm sure the time we spent together will be useful in helping us to resolve our problems. My colleagues and I certainly look forward to working with you, Senator Talent, and any other persons who you believe can help our cause.

As mentioned; I indicated that I would formalize our telephone conversation by providing you a written description of our Company, the nature of Stalosan F™ (Material Specifications), the efficacy of Stalosan F™ (Effectiveness), and, as mentioned during the course of our telephone conversation, the current problems we have encountered in attempting to get our product registered with the EPA (Issues).

As you will see, there is no reason that this product should not be approved immediately by the EPA. It is with regard to this matter that we seek your immediate help.

Our Company:

Our Company is an Illinois-chartered Limited Liability Company named "ArchAngel, LLC." The primary mission of our Company is to market and sell safe, natural products that promote animal health (and, hence, human health). At this time, our product portfolio is limited to importing and marketing the superb livestock odor abatement / dry disinfectant product produced by [REDACTED] company that has marketed and sold natural animal-health and livestock odor abatement products for many decades. In fact, [REDACTED] is the odor abatement product 'company of choice' for literally thousands of European livestock producers and has been so for many, many years. Furthermore, ArchAngel, LLC and [REDACTED] have formalized a joint-agreement to manufacture Stalosan F™ in the United States, pending an EPA registration. The process has begun to secure a manufacturing site which would serve the Western Hemisphere and perhaps Asia.

Material Specifications of Stalosan F™:

Stalosan F™ is a powder of small particle size which is a mixture of [REDACTED]

2005 NOV -5 PM 7:52

Inert ingredient information may be entitled to confidential treatment

[REDACTED] All of the active ingredients in the product are inorganic powders except for the perfume agent. The production process for this product is proprietary and covered by various patents. The product is imported into the United States as 55-pound bags stacked on pallets and placed inside containers. Importantly, note that this odor abatement product has significant disinfectant and antimicrobial properties – properties that contribute significantly to both the health of livestock and, the people who work in livestock production facilities. Additionally, unlike other common disinfectants, the product is completely safe for use in the presence of animals and human labor at all stages of production.

Effectiveness:

As mentioned, Stalosan F™ has both antimicrobial properties and odor abatement properties. Stalosan F™ essentially eliminates all odors arising from raising livestock in confined spaces by accomplishing the following:

- Inhibiting the metabolism and proliferation of bacteria and fungus through the use of its highly-reactive copper compounds
- Inhibiting the reproduction of bacteria, viruses, parasites, and fly-larvae through the use of minerals (Moler earth) that bind to the surface of these pests (rendering them inactive during the reproductive phase of these pests' life-cycle)
- Killing parasites, fly-larvae, insects, and worms (of various types) through the use of the sharp-edged crystalline shape of the product that penetrates the surface of these pests
- Killing bacteria and other pests through the use of its acidic surface
- Chemically inactivating urease, the enzyme found in swine and poultry urine that creates ammonia. And, note that it is the horrific ammonia odor emanating from swine and poultry operations that gives rise to the thousands of complaints registered by citizens in many communities throughout the United States.

Note also that all of the aforementioned items are substantiated with a voluminous amount of test data that has been performed at the expense of [REDACTED] in an effort to get approval (which they have done) for marketing and selling this product in many countries in Europe and in other parts of the world. In fact, the quantity and quality of research testing performed by [REDACTED] is overwhelming and is available for viewing by the general public at the Company's web-site at [REDACTED]

Issues:

We have spent the past three years and a substantial amount of money in an attempt to get Stalosan F™ approved by the EPA for use in the United States. Our goal is to claim that our product:

- Eliminates the majority of odors normally associated with the production of livestock (again, in confined spaces)
- Creates a healthier environment for livestock production areas over which the product is employed

As a result of these two beneficial attributes, our marketing literature will further elaborate that our product thus promotes improved animal health, improved and more sanitary meat products originating from livestock operations that employ our product, and, hence, promotes improved human health.

In the United States, the EPA registers disinfectants for use as liquids – not powders, as is the case with Stalosan F™. These liquid disinfectants are subjected to a standard test that requires, among other items, that the disinfectant kill all of a specific amount of a control pathogen in a specified period of time. Stalosan F™, being a powder, has no hope of working as fast as a liquid disinfectant. However, the product is more effective (kills more pathogens / works longer) than any known liquid disinfectant for its intended use. Moreover, it is a complex mixture of naturally occurring products that have, individually or collectively, no deleterious effects on humans, animals, or the environment. Specifically, none of the active ingredients in the product are – by EPA definitions – hazardous ingredients.

Our contentions are as follows:

- Stalosan F™ is a powder 'antimicrobial' (and odor abatement product) and should not be subjected to the same tests as are performed on liquid disinfectants.
- The EPA should grant Stalosan F™ an antimicrobial registration quickly.

It's unfortunate that the product was not developed in the United States and that the EPA does not have any viable tests for products such as ours. But, in this case (livestock odor abatement and related animal health), we Americans have something to learn from our European 'cousins.'

Please help us get this product through the maze and roadblocks that we are facing in Washington. I'm sure that your constituents will become the rightful beneficiaries of a community with less odors, healthier animals, healthier meat products, and, most importantly, healthier families. Stalosan F™ really does work and it is time for the American public to benefit from this product.

Regards,

Jesse Heimer
ArchAngel, LLC

SCOPING MEETING - NOVEMBER 9, 2005

Archangel LLC has submitted a new application on April 20, 2005 (Stalosan F, EPA File Symbol 75526-R) for the use of Copper Sulfate Pentahydrate in livestock housing to inhibit the growth of mold, mildew and odor causing bacteria on livestock floors.

Directions For Use:

Use 1 pound of material to 100 Sq. ft, 1 time per day for 3 days and continue use 1 time a week thereafter.

This is a new use pattern (code A46) for Copper Sulfate pentahydrate. A 100% waiver was granted on 5/27/05. The due date for this application is 8/20/06. The company was informed that this is a food use and would require a Tolerance Petition or an Exemption from tolerance.

A Tolerance Exemption has been granted for meat, poultry, milk, eggs, fish, shellfish and irrigated crops. A Tolerance Exemption Petition has been filed (5F6982) on 8/10/05, and no fee is required. The Petition due date is 12/06.

Science Data packages have been sent to RASSB for review including the CSF, label, 2 Tox. Studies, the Petition and an HED Tox Risk Assessment for Copper Sulfate Pentahydrate.

Questions:

1. Does RASSB see any major problems?
2. Is a full Risk Assessment required?



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Martha Terry (7570)

DEC 29 2005

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

The Honorable Charles E. Grassley
United States Senate
Washington, DC 20510

***Product ingredient source information may
be entitled to confidential treatment***

Dear Senator Grassley:

Thank you for your October 26, 2005, letter on behalf of your constituent, Mr. Glen Gabriel of ArchAngel, LLC. Mr. Gabriel has asked for assistance in getting his company's product, Stalosan F, registered in the United States with EPA. Currently, this product is produced by a [REDACTED] and is marketed in Europe as an odor abatement product for livestock. We appreciate Mr. Gabriel's concerns and are working to assist him in the registration of this product.

There are several key areas I would like to address in Mr. Gabriel's letter. Mr. Gabriel has expressed concerns that his company has invested three years and considerable resources in its efforts to register Stalosan F in the United States. As is customary for anyone seeking an EPA registration, we held pre-registration meetings with ArchAngel, LLC to inform them of the registration requirements as they apply to this product. Subsequent to these meetings, ArchAngel submitted its initial registration application on April 20, 2005. Unfortunately, the application did not include data to support a tolerance exemption, and we were not able to process the application. A tolerance exemption is necessary because the product will be used in facilities where animals are present, and there could be product residues in the meat or meat by-products. We informed ArchAngel of this requirement and asked the company to submit a tolerance exemption petition, which we received on August 10, 2005.

Additionally, Mr. Gabriel noted the product should not be subjected to the same efficacy tests as liquid disinfectants. This efficacy data must be submitted to EPA with the application for registration only for products making public health claims. We are not requiring submission of efficacy data to support the proposed uses of Stalosan F because, as proposed for use in the United States, Stalosan F would be produced as an antimicrobial microbiocide for use in livestock odor abatement in confined spaces (e.g., barns, stables), which is not a public health claim. However, regardless of the physical form of the product, if public health or marketing claims were to be submitted to EPA on the product label for Stalosan F, then performance data that meet our current efficacy requirements would be required. All applicants are required to develop data to support the claims made on the product label.

As you know, in January 2003, the Pesticide Registration Improvement Act (PRIA) was enacted. This law established a fee structure and timelines for Agency review of applications for registration. Under PRIA, the due date for an Agency determination on the Stalosan F

application is August 2006. At this time, the Agency is reviewing the data submitted to support the Stalosan F application. Barring any unforeseen issues, the Agency expects to make a final determination on the Stalosan F application in Spring of 2006, well in advance of the PRJA due date.

Again, thank you for your letter and for bringing this matter to my attention. I hope that this information will prove to be helpful to you and Mr. Gabriel. Please contact me if you have further concerns, or your staff may contact Betsy Henry in our Office of Congressional and Intergovernmental Relations at 202-564-7222.

Sincerely yours,


Susan B. Hazen
Principal Deputy Assistant Administrator

***Product ingredient source information may be entitled to
confidential treatment***

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

7506C/OPP/FEAD/CSB/R. Jackson/308-2952/November 29, 2005

V:\PSPS\Lets2005\AL-05-001-7416

bcc: TS AL HOLD(7506C) Susan Laing (7510C) Martha Terry (7510C)
Marshall Swindell (7510C) Dennis Edwards (7510C)

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United States Senate
Washington, DC 20510

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Additionally, Mr. Gabriel noted the product should not be subjected to the same efficacy tests as liquid disinfectants. All applicants are required to develop data to support the claims made on the product label. We are not requiring submission of efficacy data to support the proposed uses of this product because, as proposed for use in the United States, Stalosan F would be produced in granular form as an antimicrobial microbiocide for use in livestock odor abatement in confined spaces (e.g., barns, stables), which is not a public health claim. These data must be submitted to EPA at the time of application for registration only for products making public health claims. Further, regardless of the physical form of the product, if public health label or marketing claims were to be submitted to EPA, then performance data that meet our current efficacy requirements would be required.

*See
revised
letter
in CMS*
43

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Product ingredient source information may be entitled to confidential treatment

7506C/OPP/FEAD/CSB/R. Jackson/308-2952/November 29, 2005

V:\PSPS\Lets2005\AL-05-001-7416

bcc: TS AL HOLD(7506C) Susan Laing (7510C) Martha Terry (7510C)
Marshall Swindell (7510C) Dennis Edwards (7510C)

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Washington, DC 20510

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① Additionally, Mr. Gabriel noted the product should not be subjected to the same efficacy tests as liquid disinfectants. ²We are not requiring submission of efficacy data to support the proposed uses of this product. ³As proposed for use in the U.S., Stalosan F would be produced as an antimicrobial microbiocide ⁴(in granular form) for use in livestock odor abatement in confined spaces (e.g., barns, stables), which is not a public health claim. However, ⁵all applicants are required to develop data to support the claims made on the product label. ⁶These data must be submitted to EPA at the time of application for registration only for products making public health claims. ⁷Further, regardless of the physical form of the product, if public health label or marketing claims were to be submitted to EPA, then performance data ⁸which meets our current efficacy requirements would be required.

CONCURRENCES						
SYMBOL	7506C	7510C	7506C	7501-C		
SURNAME	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	
DATE	12/7/05	12/7/05	12/7/05	12-7-05	12-7-05	

As you know, in January 2003, the Pesticide Registration Improvement Act (PRIA) was enacted. This law established a fee structure and timelines for Agency review of applications for registration. Under PRIA, the due date for an Agency determination on the Stalosan F application is August 2006. At this time, the Agency is reviewing the data submitted to support the Stalosan F application. Barring any unforeseen issues, the Agency expects to make a final determination on the Stalosan F application in spring of 2006, well in advance of the PRIA due date.

Again, thank you for your letter and for bringing this matter to my attention. I hope that this information will prove to be helpful to you and Mr. Gabriel. If you have any further questions, please let me know or your staff may contact Betsy Henry in our Office of Congressional and Intergovernmental Relations at 202-564-7222.

Sincerely yours,

Susan B. Hazen
Principal Deputy Assistant Administrator

Correspondence Management System

Tracking Document

AA due date 9/29/05

Control No.: AL-05-001-7416
Status: Pending
Due Date: Dec 25, 2005
Letter Date: Oct 26, 2005
Received Date: Nov 22, 2005
Close Date: N/A

of Extensions: 1
Notes: AA-OPPTS Prepare draft response for signature by the Assistant Administrator for OPPTS. CC: Lin Moos

Alt No.:
File Code: 141-A CONGRESSIONAL CORRESPONDENCE
From: Charles Grassley

Organization: United States Senate
Street: SH-135 Hart Senate Office Building
City/State/Zip: Washington / DC / 20510
Country: USA

Committee:
Sub Committee:
Constituent: GLEN GABRIEL

To:
To Org:
Subject: THE REGISTRATION OF STALOSAN F
Signature: AA-OPPTS-Assistant Administrator - OPPTS
Signature Date: N/A
Instruction Codes: AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS

Instruction Notes:
Lead Author: Ronald Jackson
Lead Author Due Date: Dec 20, 2005
Lead Author Complete Date: Dec 07, 2005
Lead Author Office: OPPTS-OPP-FEAD-CSB
Lead Author Assigned Date: Nov 30, 2005
Lead Author Instruction: AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS

Supporting Author:
CC: BETSY HENRY, Region 7

Lead Info:

Assigner	Office	Assignee	Assigned Date	Due Date	Instructions	Completed Date
Cassandra Eades	OCIR	OPPTS	Nov 22, 2005	Dec 25, 2005	AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS	N/A
Marilyn Mal-	OPPTS	OPPTS-	Nov 23, 2005	Dec 20, 2005		Dec 07, 2005

loy Doretha Wood	OPPTS- OPP	OPP OPPTS- OPP- FEAD-CSB	Nov 28, 2005	Dec 20, 2005	AA_OPPTS - Pre- pare draft re- sponse for signa- ture by the Assist- ant Administrator. Cc: Lin Moos	Dec 07, 2005
Claire Gesalman	OPPTS- OPP- FEAD-CSB	Ronald Jackson	Nov 28, 2005	Dec 20, 2005		Dec 07, 2005

Support Info:

Assigner	Office	Supporting Assignee	Assigned Date
No records found			

Assignment History:

Assigner	Office	Action	Date of Action
Cassandra Eades	OCIR	Assign OPPTS as lead office	Nov 22, 2005
Marilyn Malloy	OPPTS	Assign OPPTS-OPP as lead office	Nov 23, 2005
Doretha Wood	OPPTS-OPP	Assign OPPTS-OPP-FEAD-CSB as lead office	Nov 28, 2005
Claire Gesalman	OPPTS-OPP-FEAD-CSB	Assign Ronald Jackson as lead	Nov 28, 2005
Ronald Jackson	OPPTS-OPP-FEAD-CSB	Take task	Nov 30, 2005
Ronald Jackson	OPPTS-OPP-FEAD-CSB	Sent for Review to Susan Laing	Nov 30, 2005
Ronald Jackson	OPPTS-OPP-FEAD-CSB	Requested due date extension	Dec 01, 2005
Claire Gesalman	OPPTS-OPP-FEAD-CSB	Sent to Cassandra Eades for extension request	Dec 01, 2005
Cynthia Gaines	OCIR	Changed due date from Dec 06, 2005 to Dec 13, 2005	Dec 02, 2005
Cassandra Eades	OCIR	The due date extension request has been approved	Dec 05, 2005
Susan Laing	OPPTS-OPP-AD	Review Approved by Susan Laing	Dec 07, 2005
Ronald Jackson	OPPTS-OPP-FEAD-CSB	Finished response document	Dec 07, 2005
Ronald Jackson	OPPTS-OPP-FEAD-CSB	Sent control to Claire Gesalman for approval	Dec 07, 2005
Claire Gesalman	OPPTS-OPP-FEAD-CSB	Sent control back to Ronald Jackson for modification	Dec 07, 2005
Ronald Jackson	OPPTS-OPP-FEAD-CSB	Resent control to Claire Gesalman for approval	Dec 07, 2005
Claire Gesalman	OPPTS-OPP-FEAD-CSB	Concur and sent control to Lin Moos for approval	Dec 07, 2005
Lin Moos	OPPTS-OPP	Concur and sent control to Margie Fehrenbach for approval	Dec 07, 2005
Margie Fehrenbach	OPPTS-OPP	Concur and sent control to anthony britten for approval	Dec 07, 2005

Assignment Comments:

Commentator	Comment	Date of Comment
Ronald Jackson	Based on reasons stated by the Antimicrobials Division (primarily that this is a complex issue, and the response will have to receive multiple reviews and concurrences), we request an extension to 12/20/05. requested extension date: 12/20/2005	Dec 01, 2005

Reply To:

135 HART SENATE OFFICE BUILDING
WASHINGTON, DC 20510-1501
(202) 224-3744
TTY: (202) 224-4479
e-mail: chuck_grassley@grassley.senate.gov

221 FEDERAL BUILDING
210 WALNUT STREET
DES MOINES, IA 50309-2140
(515) 288-1145

205 FEDERAL BUILDING
101 1ST STREET SE
CEDAR RAPIDS, IA 52401-1227
(319) 363-6832

United States Senate

CHARLES E. GRASSLEY

WASHINGTON, DC 20510-1501

October 26, 2005

Reply To:

103 FEDERAL COURTHOUSE BUILDING
320 6TH STREET
SIOUX CITY, IA 51101-1244
(712) 233-1980

210 WATERLOO BUILDING
531 COMMERCIAL STREET
WATERLOO, IA 50701-5487
(319) 232-6887

131 WEST 3RD STREET
SUITE 180
DAVENPORT, IA 52801-1418
(563) 322-4331

307 FEDERAL BUILDING
8 SOUTH 8TH STREET
COUNCIL BLUFFS, IA 51501-4204
(712) 322-7103

Mr. Charles Engebretsen
Assoc. Administrator of Congressional Affairs
Environmental Protection Agency
1200 Pennsylvania Avenue, NW, Room 3426 ARN
Washington, DC 20460

Dear Mr. Engebretsen:

Enclosed please find a communication from Glen Gabriel regarding the registration of Staloson F.

I would appreciate any assistance you could provide pertaining to this matter. Please mark your return correspondence to the attention of Jarret Heil when responding to my office.

Thank you for your attention to my request.

Sincerely,

Charles E. Grassley
Charles E. Grassley
United States Senator

CEG/jh
Enclosure

CHAIRMAN,
FINANCE

Committee Assignments:

BUDGET
JUDICIARY
AGRICULTURE

PRINTED ON RECYCLED PAPER

CHAIRMAN,
INTERNATIONAL NARCOTICS
CONTROL CAUCUS

Inert ingredient information may be entitled to confidential treatment

Charles E. Grassley
United States Senator
135 Hart Senate Office Building
Washington, DC 20510

Product ingredient source information may be entitled to confidential treatment

Senator Charles E. Grassley:

It was a pleasure talking to you yesterday about our Company; our products (including Stalosan F™, the livestock odor abatement product); current issues related to US registration of Stalosan F™; and other related matters. I'm sure the time we spent together will be useful in helping us to resolve our problems. My colleagues and I certainly look forward to working with you, Senator Grassley, and any other persons who you believe can help our cause.

As mentioned, I indicated that I would formalize our telephone conversation by providing you a written description of our Company, the nature of Stalosan F™ (Material Specifications), the efficacy of Stalosan F™ (Effectiveness), and, as mentioned during the course of our telephone conversation, the current problems we have encountered in attempting to get our product registered with the EPA (Issues).

As you will see, there is no reason that this product should not be approved immediately by the EPA. It is with regard to this matter that we seek your immediate help. We would be very pleased if you were to forward the attached draft letter to Stephen L. Johnson at the EPA.

Our Company:

Our Company is an Illinois-chartered Limited Liability Company named "ArchAngel, LLC." The primary mission of our Company is to market and sell safe, natural products that promote animal health (and, hence, human health). At this time, our product portfolio is limited to importing and marketing the superb livestock odor abatement / dry disinfectant product produced by [REDACTED] company that has marketed and sold natural animal-health and livestock odor abatement products for many decades. In fact, [REDACTED] is the odor abatement product 'company of choice' for literally thousands of European livestock producers... and has been so for many, many years. Furthermore, ArchAngel, LLC and [REDACTED] have formalized a joint-agreement to manufacture Stalosan F™ in the United States, pending an EPA registration. The process has begun to secure a manufacturing site which would serve the Western Hemisphere and perhaps Asia.

Material Specifications of Stalosan F™:

Stalosan F™ is a powder of small particle size which is a mixture of [REDACTED]

[REDACTED] All of the active ingredients in the product are inorganic powders except for the perfume agent. The production process for this product is proprietary and covered by various patents. The product is imported into the United States as 55-pound bags stacked on pallets and placed inside containers.

***Product ingredient source information may be entitled to
confidential treatment***

Importantly, note that this odor abatement product has significant disinfectant and antimicrobial properties – properties that contribute significantly to both the health of livestock and, the people who work in livestock production facilities. Additionally, unlike other common disinfectants, the product is completely safe for use in the presence of animals and human labor at all stages of production.

Effectiveness:

As mentioned, Stalosan F™ has both antimicrobial properties and odor abatement properties. Stalosan F™ essentially eliminates all odors arising from raising livestock in confined spaces by accomplishing the following:

- Inhibiting the metabolism and proliferation of bacteria and fungus through the use of its highly-reactive copper compounds
- Inhibiting the reproduction of bacteria, viruses, parasites, and fly-larvae through the use of minerals (Moler earth) that bind to the surface of these pests (rendering them inactive during the reproductive phase of these pests' life-cycle)
- Killing parasites, fly-larvae, insects, and worms (of various types) through the use of the sharp-edged crystalline shape of the product that penetrates the surface of these pests
- Killing bacteria and other pests through the use of its acidic surface
- Chemically inactivating urease, the enzyme found in swine and poultry urine that creates ammonia. And, note that it is the horrific ammonia odor emanating from swine and poultry operations that gives rise to the thousands of complaints registered by citizens in many communities throughout the United States.

Note also that all of the aforementioned items are substantiated with a voluminous amount of test data that has been performed at the expense of [REDACTED] in an effort to get approval (which they have done) for marketing and selling this product in many countries in Europe and in other parts of the world. In fact, the quantity and quality of research testing performed by [REDACTED] is overwhelming and is available for viewing by the general public at the Company's web-site at [REDACTED]

Issues:

We have spent the past three years and a substantial amount of money in an attempt to get Stalosan F™ approved by the EPA for use in the United States. Our goal is to claim that our product:

- Eliminates the majority of odors normally associated with the production of livestock (again, in confined spaces)
- Creates a healthier environment for livestock production areas over which the product is employed

As a result of these two beneficial attributes, our marketing literature will further elaborate that our product thus promotes improved animal health, improved and more sanitary meat products originating from livestock operations that employ our product, and, hence, promotes improved human health.

In the United States, the EPA registers disinfectants for use as liquids – not powders, as is the case with Stalosan F™. These liquid disinfectants are subjected to a standard test that requires, among other items, that the disinfectant kill all of a specific amount of a control pathogen in a specified period of time. Stalosan F™, being a powder, has no hope of working as fast as a liquid disinfectant. However, the product is more effective (kills more pathogens / works longer) than any known liquid disinfectant for its intended use. Moreover, it is a complex mixture of naturally occurring products that have, individually or collectively, no deleterious effects on humans, animals, or the environment. Specifically, none of the active ingredients in the product are – by EPA definitions – hazardous ingredients.

Our contentions are as follows:

- Stalosan F™ is a powder 'antimicrobial' (and odor abatement product) and should not be subjected to the same tests as are performed on liquid disinfectants.
- The EPA should grant Stalosan F™ an antimicrobial registration quickly.

It's unfortunate that the product was not developed in the United States and that the EPA does not have any viable tests for products such as ours. But, in this case (livestock odor abatement and related animal health), we Americans have something to learn from our European 'cousins.'

Please help us get this product through the maze and roadblocks that we are facing in Washington. I'm sure that your constituents will become the rightful beneficiaries of a community with less odors, healthier animals, healthier meat products, and, most importantly, healthier families. Stalosan F™ really does work and it is time for the American public to benefit from this product.

Regards,

Glen H. Gabriel
ArchAngel, LLC
2735 Adirondack Dr.
Cedar Rapids, IA 52402
Ph - 319-360-3100
Fx - 319-364-8575

att: Draft Letter to EPA from respective Senator Grassley



United States
Environmental Protection Agency
Washington, D.C. 20460 Office of Prevention, Pesticides and Toxic Substances
Office of Pesticide Programs
Field and External Affairs Division

Communication Services Branch
Telephone Number: (703) 305-5017
Fax Number: (703) 305-5558

FAX COVER SHEET

Date: 11/29/05

TO

Name: Susan Lang

Organization: _____

Fax Phone Number: _____

Office Phone Number: _____

FROM

Name: Clare Gesalman

Office phone number: _____

Office room number: _____

Mail Code: 7506C

Number of pages (including this cover sheet): _____

Comments/Special Instructions: _____

Correspondence Management System

Ronald

Tracking Document

Control No.: AL-05-001-7416
 Status: Pending
 Due Date: *Dec 1*
 Letter Date: ~~Dec 06, 2005~~
 Received Date: Oct 26, 2005
 Close Date: Nov 22, 2005
 N/A

of Extensions: 0
 Notes:
 Alt No.:
 File Code: 141-A CONGRESSIONAL CORRESPONDENCE
 From: Charles Grassley
 Organization: United States Senate
 Street: SH-135 Hart Senate Office Building
 City/State/Zip: Washington / DC / 20510
 Country: USA

Committee:
 Sub Committee:
 Constituent: GLEN GABRIEL
 To:
 To Org:
 Subject: THE REGISTRATION OF STALOSAN F
 Signature: AA-OPPTS-Assistant Administrator - OPPTS
 Signature Date: N/A
 Instruction Codes: AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS

Instruction Notes:
 Lead Author:
 Lead Author Due Date: N/A
 Lead Author Complete Date: N/A
 Supporting Author:
 CC: BETSY HENRY, Region 7

Lead Author Office:
 Lead Author Assigned Date: N/A
 Lead Author Instruction:

Lead Info:

Assigner	Office	Assignee	Assigned Date	Due Date	Instructions	Completed Date
Cassandra Eades	OCIR	OPPTS	Nov 22, 2005	Dec 06, 2005	AA-OPPTS-Prepare draft response for signature by the Assistant Administrator for OPPTS	N/A
Marilyn Malloy	OPPTS	OPPTS-OPP	Nov 23, 2005	Dec 01, 2005		N/A

Support Info:

Assigner	Office	Supporting Assignee	Assigned Date
No records found			

Assignment History:

Assigner	Office	Action	Date of Action
Cassandra Eades	OCIR	Assign OPPTS as lead office	Nov 22, 2005
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Assignment Comments:

Commentator	Comment	Date of Comment
No records found		

Reply To:

☒ 115 HART SENATE OFFICE BUILDING
WASHINGTON, DC 20510-1501
1101 226-3746
T: (202) 226-4479
e: cgrassley@grassley.senate.gov

☐ 711 FEDERAL BUILDING
210 WASHINGTON STREET
CRAKE, MA 02025-2140
(617) 288-1145

☐ 205 FEDERAL BUILDING
101 1ST STREET SE
CRAKE, MA 02021-1217
(617) 262-6532

United States Senate

CHARLES E. GRASSLEY

WASHINGTON, DC 20510-1501

October 26, 2005

Reply To:

☐ 100 FEDERAL COURTHOUSE BUILDING
320 8TH STREET
BIRMINGHAM, AL 35201-1244
(712) 233-1880

☐ 210 WATERLOO BUILDING
837 COMMERCIAL STREET
WATERLOO, IA 50701-6497
(319) 232-0887

☐ 101 WEST 2ND STREET
SUITE 180
DANBURY, CT 06811-1418
(860) 323-4331

☐ 307 FEDERAL BUILDING
8 SOUTH 8TH STREET
COUNCIL BLUFFS, IA 51501-4204
(712) 323-7109

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Charles E. Grassley
United States Senator

CEG/jh
Enclosure

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FINANCE

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JUDICIARY
AGRICULTURE

PRINTED ON RECYCLED PAPER

CHAIRMAN,
INTERNATIONAL NARCOTICS
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As you will see, there is no reason that this product should not be approved immediately by the EPA. It is with regard to this matter that we seek your immediate help. We would be very pleased if you were to forward the attached draft letter to Stephen L. Johnson at the EPA. ←

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[REDACTED] company that has marketed and sold natural animal-health and livestock odor abatement products for many decades. In fact, [REDACTED] is the odor abatement product 'company of choice' for literally thousands of European livestock producers... and has been so for many, many years. Furthermore, ArchAngel, LLC and [REDACTED] have formalized a joint-agreement to manufacture Stalosan F™ in the United States, pending an EPA registration. The process has begun to secure a manufacturing site which would serve the Western Hemisphere and perhaps Asia.

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Inert ingredient information may be entitled to confidential treatment

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- Inhibiting the reproduction of bacteria, viruses, parasites, and fly-larvae through the use of minerals (Moler earth) that bind to the surface of these pests (rendering them inactive during the reproductive phase of these pests' life-cycle)
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- Killing bacteria and other pests through the use of its acidic surface
- Chemically inactivating urease, the enzyme found in swine and poultry urine that creates ammonia. And, note that it is the horrific ammonia odor emanating from swine and poultry operations that gives rise to the thousands of complaints registered by citizens in many communities throughout the United States.

Note also that all of the aforementioned items are substantiated with a voluminous amount of test data that has been performed at the expense of [REDACTED] in an effort to get approval (which they have done) for marketing and selling this product in many countries in Europe and in other parts of the world. In fact, the quantity and quality of research testing performed by [REDACTED] is overwhelming and is available for viewing by the general public at the Company's web-site at [REDACTED]

Issues:

We have spent the past three years and a substantial amount of money in an attempt to get Stalosan F™ approved by the EPA for use in the United States. Our goal is to claim that our product:

- Eliminates the majority of odors normally associated with the production of livestock (again, in confined spaces)
- Creates a healthier environment for livestock production areas over which the product is employed

As a result of these two beneficial attributes, our marketing literature will further elaborate that our product thus promotes improved animal health, improved and more sanitary meat products originating from livestock operations that employ our product, and, hence, promotes improved human health.

In the United States, the EPA registers disinfectants for use as liquids - not powders, as is the case with Stalosan F™. These liquid disinfectants are subjected to a standard test that requires, among other items, that the disinfectant kill all of a specific amount of a control pathogen in a specified period of time. Stalosan F™, being a powder, has no hope of working as fast as a liquid disinfectant. However, the product is more effective (kills more pathogens / works longer) than any known liquid disinfectant for its intended use. Moreover, it is a complex mixture of naturally occurring products that have, individually or collectively, no deleterious effects on humans, animals, or the environment. Specifically, none of the active ingredients in the product are - by EPA definitions - hazardous ingredients.

Our contentions are as follows:

- Stalosan F™ is a powder 'antimicrobial' (and odor abatement product) and should not be subjected to the same tests as are performed on liquid disinfectants.
- The EPA should grant Stalosan F™ an antimicrobial registration quickly.

It's unfortunate that the product was not developed in the United States and that the EPA does not have any viable tests for products such as ours. But, in this case (livestock odor abatement and related animal health), we Americans have something to learn from our European 'cousins.'

Please help us get this product through the maze and roadblocks that we are facing in Washington. I'm sure that your constituents will become the rightful beneficiaries of a community with less odors, healthier animals, healthier meat products, and, most importantly, healthier families. Stalosan F™ really does work and it is time for the American public to benefit from this product.

Regards,

Glen H. Gabriel
ArchAngel, LLC
2735 Adirondack Dr.
Cedar Rapids, IA 52402
Ph - 319-360-3100
Fx - 319-364-8575

att: Draft Letter to EPA from respective Senator Grassley

Fee for Service



This package includes the following

- ☒ New Registration
- ☐ Amendment

☒ Studies? ☐ Fee Waiver?
☐ volpay % Reduction: _____

for Division

- ☒ AD
- ☐ BPPD
- ☐ RD

Risk Mgr. 33

Receipt No.

S- 783560

EPA File Symbol/Reg. No.

5F6982

Pin-Punch Date:

8/25/05

☐ This item is NOT subject to FFS action.

Action Code:

Requested:

Granted: A46.0 *lie*

Amount Due: ~~\$70,000~~

Parent/Child Decisions:

Reviewer: Henson

Date: 8/26/05

Remarks:

**EPA**

United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number
296838

Application for Pesticide - Section I

1. Company/Product Number 75526- R	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ArchAngel LLC - Stalosan F	PMR 33 33	
5. Name and Address of Applicant (Include ZIP Code) ArchAngel LLC 636 Hampshire, Suite 208 Quincy, IL 62301 PLEASE SEND ALL CORRESPONDENCE TO "CONTACT POINT" LISTED BELOW <input checked="" type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(1), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This is an old chemical registration with some new language for an existing animal confinement areas use. The product is being registered for non-public health uses, with the language agreed to in the pre-application process. The registrant has provided all required product chemistry information and acute toxicity data, using cite all for the generic data for copper sulfate pentahydrate. The category for this under PRIA should be category A54. The normal fee would be \$4,000, but we have provided small business information to request a waiver. Please contact me at bbrennis@lewisharrison.com when the fee determination is complete.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container		<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input checked="" type="checkbox"/> Other - Plastic bag/paper cover	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container ounces of product 25 kg. Net weight		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)					
Name: Robert S. Brennis, Lewis & Harrison 122 C St. NW, Suite 740, Washington, DC 20001		Title Agent for ArchAngel LLC		Telephone No. (Include Area Code) 202-393-9903 ext 20	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Agent for ArchAngel LLC			
4. Typed Name Robert S. Brennis		5. Date April 20, 2005			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

May 5, 2005

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-356769
EPA File Symbol or Registration Number: 75526-R
Product Name: STALOSAN F
EPA Receipt Date: 02-May-2005
EPA Company Number: 75526
Company Name: ARCHANGEL LLC

KENT ADAMS
ARCHANGEL LLC
636 HAMPSHIRE STREET, SUITE 208
QUINCY, IL 62301

SUBJECT: Receipt of Registration Application and 100% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has received your application for registration and 100% small business waiver request. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: A46

NEW USE;WITH EXEMPTION;NEW FOOD USE;

Your request for waiver has been forwarded for review. You will be notified in writing when a determination is made regarding your request. If the determination indicates that payment is due, you will receive instructions for submitting payment at that time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman, at (703) 308-6432.

Sincerely,

A handwritten signature in black ink, appearing to be "Shirley".

Front End Processing Staff
Information Resources and Services Division

Fee for Service

This package includes the following

☒ New Registration

☐ Amendment

☒ Waiver Request and type

☐ 100% ☐ 50% ☐ IR-4 ☐ Minor ☐ Fed/state

for Division

~~☒ RD~~

☒ AD

☐ BPPD

Risk Mgr.

~~33~~ 33

Receipt Nos. S-

778306

EPA File Symbol/Reg. No.

75526-R

Pin-Punch Date:

6/2/05

☐ This item is NOT subject to FFS action.

Action Code:

Requested:

A-46

Granted:

A-46

Amount due: \$

~~10,000~~ 10,000

Parent/Child Decisions:

☐ Voluntary Payment Request

% Reduction

Reviewer:

V. Miller / K. Leary

Date:

5-4-05

Remarks: (use back if needed)



46/B-2-1 etc. Subject

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

May 27, 2005

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-356769
EPA File Symbol or Registration Number: 75526-R
Product Name: STALOSAN F
EPA Application Receipt Date: 02-May-2005
EPA Waiver Request Receipt date: 02-May-2005
EPA Company Number: 75526
Company Name: ARCHANGEL LLC

KENT ADAMS
ARCHANGEL LLC
636 HAMPSHIRE STREET, SUITE 208
QUINCY, IL 62301

SUBJECT: Approval of Waiver Request

Dear Registrant:


The Office of Pesticide Programs has approved your request for 100% waiver of the pesticide registration fee associated with the action referenced above. The decision review period for this action begins on the date of this letter.

The Action has been identified as Action Code: A46

NEW USE; WITH EXEMPTION; NEW FOOD USE

If you have any questions, please contact Pesticide Registration Service Fee Ombudsman, at (703) 308-6432.

Sincerely,

for 

Arnold E. Layne, Director
Information Resources and Services Division



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060



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DATA MATRIX

Date 04/27/05	EPA Reg. No./File Symbol 75526-R	Page 1 of 2
Applicant's/Registrant's Name & Address: ArchAngel LLC 636 Hampshire, Suite 208 Quincy, IL 62301		Product Stalosan F

Ingredient(s): a) Copper Sulfate Pentahydrate (CAS #7758-99-8)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550/61-1	Product Identity and Composition	To be assigned	ArchAngel (Co. #75526)	OWN	
830.1600/61-2	Description of the Materials Used to Produce the Product	To be assigned	ArchAngel (Co. #75526)	OWN	
830.1650/61-2	Description of the Manufacturing Process	To be assigned	ArchAngel (Co. #75526)	OWN	
830.1670/61-3	Discussion of Formation of Impurities	To be assigned	ArchAngel (Co. #75526)	OWN	
830.1700/62-1	Preliminary Analysis	Not Required	---	---	
830.1750/62-2	Certified Limits	To be assigned	ArchAngel (Co. #75526)	OWN	
830.1800/62-3	Enforcement Analytical Method	To be assigned	ArchAngel (Co. #75526)	OWN	
830.6302/63-2	Color	To be assigned	ArchAngel (Co. #75526)	---	
830.6303/63-3	Physical State	To be assigned	ArchAngel (Co. #75526)	OWN	
830.6304/63-4	Odor	To be assigned	ArchAngel (Co. #75526)	---	
830.7300/63-7	Density/Relative Density/Bulk Density	To be assigned	ArchAngel (Co. #75526)	OWN	
830.7000/63-12	pH	To be assigned	ArchAngel (Co. #75526)	OWN	
830.6313/63-13	Stability	To be assigned	ArchAngel (Co. #75526)	---	
830.6314/63-14	Oxidation/Reduction: Chemical Compatibility	Not Required	---	---	
830.6316/63-16	Explosibility	Not Required	---	---	
830.6317/63-17	Storage Stability	To be assigned	ArchAngel (Co. #75526)	OWN	
830.6319/63-19	Miscibility	Not Required	---	---	
830.6320/63-20	Corrosion Characteristics	To be assigned	ArchAngel (Co. #75526)	OWN	
830.6321/63-21	Dielectric Breakdown Voltage	Not Required	---	---	
870.1100/81-1	Acute Oral Toxicity	To be assigned	ArchAngel (Co. #75526)	OWN	
870.1200/81-2	Acute Dermal Toxicity	To be assigned	ArchAngel (Co. #75526)	OWN	
870.1300/81-3	Acute Inhalation Toxicity	To be assigned	ArchAngel (Co. #75526)	OWN	
870.2400/81-4	Primary Eye Irritation	To be assigned	ArchAngel (Co. #75526)	OWN	
870.2500/81-5	Primary Dermal Irritation	To be assigned	ArchAngel (Co. #75526)	OWN	
870.2600/81-6	Skin Sensitization	To be assigned	ArchAngel (Co. #75526)	OWN	

Signature	Name and Title: Robert S. Brenals, Lewis & Harrison Agent for ArchAngel LLC	Date 4/27/05 67
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060



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DATA MATRIX

Date 04/27/05		EPA Reg. No./File Symbol 75526-R		Page 2 of 2	
Applicant's/Registrant's Name & Address: ArchAngel LLC 636 Hampshire, Suite 208 Quincy, IL 62301		Product Stalosan F			
Ingredient(s): a) Copper Sulfate Pentahydrate (CAS #7758-99-8)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note

ArchAngel is using the Cite All method of support for generic data for Copper Sulfate Pentahydrate not covered by the Product Chemistry and Acute Toxicity data generated by the company. The use site for this product is indoor animal containment areas.

We have offered compensation to all companies on the data submitters list which is attached to this form.

Signature

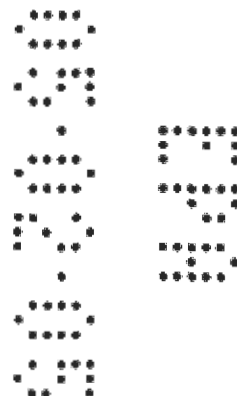
Name and Title: Robert S. Brennis, Lewis & Harrison
Agent for ArchAngel LLC

Date

4/27/05
68

COMPANY# 035896	PHIBRO-TECH INC
* DATA TYPES *	ATTN: RONALD MILLER
EU AT EC FW EF OT	65 CHALLENGER ROAD, 3RD FLOOR
XX XX	RIDGEFIELD PARK, NJ 07660
COMPANY# 037818	LIQUID CHEMICAL CORP.
* DATA TYPES *	13415 S 11TH AVENUE
EU AT EC FW EF OT	HANFORD, CA 93230
XX XX	
COMPANY# 041246	BAY CHEMICAL & SUPPLY COMPANY
* DATA TYPES *	PO BOX 1160
EU AT EC FW EF OT	ODEM, TX 78370
XX	
COMPANY# 042414	TECK COMINGO AMERICAN INC.
* DATA TYPES *	PO BOX 3087
EU AT EC FW EF OT	SPOKANE, WA 99220
XX XX XX XX XX	
COMPANY# 046923	OLD BRIDGE CHEMICAL CO.
* DATA TYPES *	PO BOX 175
EU AT EC FW EF OT	OLD BRIDGE, NJ 08857
XX	
COMPANY# 049538	LEWIS & HARRISON, LLC
* DATA TYPES *	Agent for: PRYTON CORPORATION
EU AT EC FW EF OT	122 C STREET, NW, SUITE 740
XX XX	WASHINGTON, DC 20001
COMPANY# 051036	MICRO-FLO COMPANY LLC
* DATA TYPES *	530 OAK COURT DRIVE
EU AT EC FW EF OT	MEMPHIS, TN 38117
XX	
COMPANY# 056501	COPPER SULFATE TASK FORCE
* DATA TYPES *	PO BOX 5269
EU AT EC FW EF OT	VALDOSTA, GA 316035209
XX XX XX	
COMPANY# 060058	TECK COMINGO METALS LTD.
* DATA TYPES *	PO BOX 5126
EU AT EC FW EF OT	VALDOSTA, GA 316035126
XX XX XX XX	
COMPANY# 061943	CHEM-A-CO INC
* DATA TYPES *	PO BOX 1099
EU AT EC FW EF OT	MONTICELLO, IN 47960
XX	
COMPANY# 063394	AMERICAN CHEMISTRY COUNCIL BIOCIDES PANEL
* DATA TYPES *	1300 WILSON BLVD
EU AT EC FW EF OT	ARLINGTON, VA 22209
XX	
COMPANY# 066607	SPRAY DRIFT TASK FORCE
* DATA TYPES *	1900 K STREET, NW
EU AT EC FW EF OT	WASHINGTON, DC 20006
XX	
COMPANY# 066675	MAGNA-BON II, LLC
* DATA TYPES *	1531 NW 25TH DRIVE
EU AT EC FW EF OT	OKECHOBEE, FL 34972
XX	
COMPANY# 067712	ZODIAC POOL CARE, INC.
* DATA TYPES *	2024 NW 25TH AVENUE
EU AT EC FW EF OT	POMPANO BEACH, FL 33069

COMPANY# 001270	PHELPS DODGE REFINING CORPORATION
* DATA TYPES *	PO BOX 20001
EU AT EC FW EF OT	45 PASO, TX 79398
XX XX XX XX XX	
COMPANY# 003238	AGRICO CHEMICAL CO.
* DATA TYPES *	PO BOX 50031
EU AT EC FW EF OT	NEW ORLEANS, LA 70163
XX	
COMPANY# 006991	ROCKWELL PROD COMPANY INC
* DATA TYPES *	73 OSEN AVENUE
EU AT EC FW EF OT	HAUTPAUGE, NY 11787
XX	
COMPANY# 007152	SEABOARD INDUSTRIES
* DATA TYPES *	185 VAN WINKLE AVE.
EU AT EC FW EF OT	HANTHORNE, NJ 07507
XX	
COMPANY# 007364	GLE POOL & SPA
* DATA TYPES *	W175 N11163 STONEWOOD DRIVE
EU AT EC FW EF OT	SUITE 234
XX XX XX XX	GERMANTOWN, WI 53022
COMPANY# 007792	BRAZOS ASSOCIATES, INC.
* DATA TYPES *	Agent for: ROBBIE LABE, INC.
EU AT EC FW EF OT	1806 AUBURN DRIVE
XX	CARROLLTON, TX 75007
COMPANY# 008622	AMERIBROM, INC
* DATA TYPES *	2115 LINWOOD AVENUE
EU AT EC FW EF OT	PORT LEE, NJ 07024
XX XX	
COMPANY# 008901	GRIFFIN CORP
* DATA TYPES *	12701 ALMEDA RD
EU AT EC FW EF OT	HOUSTON, TX 77045
XX XX XX XX	
COMPANY# 008959	APPLIED BIOCHEMISTS
* DATA TYPES *	W175 N11163 STONEWOOD DRIVE
EU AT EC FW EF OT	SUITE 234
XX XX XX XX	GERMANTOWN, WI 53022
COMPANY# 010356	CHEMICAL SPECIALTIES, INC.
* DATA TYPES *	ONE WOODLAWN GREEN
EU AT EC FW EF OT	CHARLOTTE, NC 28217
XX XX	
COMPANY# 010591	MARJON & ASSOCIATES
* DATA TYPES *	PO BOX 791
EU AT EC FW EF OT	MARICOPA, CA 93252
XX XX	
COMPANY# 019214	CONSUMER CHEMICAL CORPORATION
* DATA TYPES *	9 BRIDLE LANE
EU AT EC FW EF OT	POUGHKEEPSIE, NY 12603
XX XX	
COMPANY# 014076	DAYS BASE HOME PRODUCTS CORPORATION
* DATA TYPES *	12160 VICTORY BLVD
EU AT EC FW EF OT	N HOLLYWOOD, CA 91606
XX	



XX XX

COMPANY# 070264 ALTEVIA CORPORATION
* DATA TYPES *
EU AT EC FW EF OT
XX
100 LOUISIANA, SUITE 3150
HOUSTON, TX 77062

COMPANY# 071146 CNM TECHNOLOGIES
* DATA TYPES *
EU AT EC FW EF OT
XX
94 GARDINERS AVE STE 242
LEVITOWN, NY 11756

COMPANY# 071754 OUTDOOR RESIDENTIAL EXPOSURE TASK FORCE, D.D.C.
* DATA TYPES *
EU AT EC FW EF OT
XX
1350 I STREET, N.W.
WASHINGTON, DC 20005

COMPANY# 071755 AGRICULTURAL REENTRY TASK FORCE
* DATA TYPES *
EU AT EC FW EF OT
XX
1350 I STREET, N.W.
WASHINGTON, DC 20005

COMPANY# 073020 EMRON CORPORATION
* DATA TYPES *
EU AT EC FW EF OT
XX
PO BOX 675
PITTSBURGH, PA 15207

COMPANY# 073123 CRYSTAL CLEAR POOL & SPA C/O CAPO IND.
* DATA TYPES *
EU AT EC FW EF OT
XX
C/O A. DUKE PYLE WAREHOUSE
4087 LOWER VALLEY ROAD
PARKERSBURG, PA 19365

COMPANY# 074942 SCIENTIFIC & REGULATORY CONSULTANTS, INC.
* DATA TYPES *
EU AT EC FW EF OT
XX
Agent for: BENT OAK FARM SUPPLY
PO BOX 1914
COLUMBIA CITY, IN 46725

COMPANY# 075234 AGRICULTURAL HANDLER EXPOSURE TASK FORCE
* DATA TYPES *
EU AT EC FW EF OT
XX
1156 FIFTEENTH STREET, NW, SUITE 400
WASHINGTON, DC 20005

90-3000

843

CHEMICAL CHEMICAL NAME
024401 Copper sulfate pentahydrate

COMPANY# 000061 KOPPERS COMPANY, INCORPORATED
* DATA TYPES * 1201 KOPPERS BUILDING
EU AT EC FW EF OT PITTSBURGH, PA 15219
XX XX XX XX

COMPANY# 001109 BOLIDEN INTERTRADE INC
* DATA TYPES * 3379 PEACHTREE RD NE, SUITE 300
EU AT EC FW EF OT ATLANTA, GA 30326
XX XX XX XX

COMPANY# 001258 ARCH CHEMICALS, INC.
* DATA TYPES * 1955 LAKE PARK DRIVE
EU AT EC FW EF OT SMYRNA, GA 30080
XX

90 30 90

643



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date 04/27/05	EPA Reg. No./File Symbol 75526-R	Page 1 of 2
Applicant's/Registrant's Name & Address: ArchAngel LLC 636 Hampshire, Suite 208 Quincy, IL 62301	Product Stalosan F	
Ingredient(s): a) Copper Sulfate Pentahydrate (CAS #7758-99-8)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Product Identity and Composition	OWN	
			Description of the Materials Used to Produce the Product	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			---	---	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	---	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	---	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	---	
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			ArchAngel (Co. #75526)	OWN	
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			ArchAngel (Co. #75526)	OWN	
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			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	
			ArchAngel (Co. #75526)	OWN	

Signature 	Name and Title: Robert S. Brennis, Lewis & Harrison Agent for ArchAngel LLC	Date 4/27/05 73
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0080

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DATA MATRIX

Date	04/27/05	EPA Reg. No./File Symbol	75526-R	Page 2 of 2
Applicant's/Registrant's Name & Address: ArchAngel LLC 636 Hampshire, Suite 208 Quincy, IL 62301		Product Stalosan F		
Ingredient(s): a) Copper Sulfate Pentahydrate (CAS #7758-99-8)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status
				Note

ArchAngel is using the Cite All method of support for generic data for Copper Sulfate Pentahydrate not covered by the Product Chemistry and Acute Toxicity data generated by the company. The use site for this product is indoor animal containment areas.

We have offered compensation to all companies on the data submitters list which is attached to this form.

Signature 	Name and Title: Robert S. Brennis, Lewis & Harrison Agent for ArchAngel LLC	Date 4/27/05 74
--	--	-----------------------

LEWIS & HARRISON

Consultants in Government Affairs

122 C Street, N.W., Suite 740
Washington, D.C. 20001

telephone 202.393.3903
fax 202.393.3906

April 20, 2005

HAND DELIVERED

Document Processing Desk [APPL]
Office of Pesticide Programs (7504C)
Registration Division
US Environmental Protection Agency
Room 266A, Crystal Mall 2
1801 Bell Street
Arlington, VA 22202

ATTENTION: Marshall Swindell
Product Manager, Team 33

SUBJECT: ArchAngel LLC
Stalosan F (EPA Reg. No. 75526-R)
Application for Pesticide Registration of a New End-Use Product
Old Chemical Registration

Dear Mr. Swindell:

On behalf of ArchAngel LLC, we are submitting an application to register a new end-use product, **Stalosan F**. The proposed **Stalosan F** product is intended for use as a fungicide bacteristat for livestock housing facilities. This is an old chemical application with some new language for an existing animal confinement areas use. The product is being registered for non-public health uses, with the language agreed to in the pre-application process. The registrant has provided all required product chemistry information and acute toxicity data, using cite all for the generic data for copper sulfate pentahydrate.

A) SIMILARITY TO REGISTERED PRODUCTS:

The formulation for **Stalosan F** is not identical to that of any specific copper sulfate pentahydrate product, but the same uses are employed by **Earthtec Algicide/bacteristat (EPA Reg. No. 64962-1)**. We have supplied product specific data.

B) DATA REQUIREMENTS:

Product-specific chemistry studies, 6 acute toxicity studies, and an accelerated storage stability study for **Stalosan F** are included with this application package. I have attached a note from Bob Turpin, which indicates that the preliminary analysis (5 batches) is not required because the product is a formulated product and the active ingredient is considered to be a commonly

used chemical. To fulfill the remaining data requirements for **Stalosan F**, we are relying on the "cite all method" of support.

D) REGISTRATION FEES:

This product is a simple old chemical registration with product chemistry data for review. The category for this under PRIA should be category A54. The normal fee would be \$4,000, but we have provided small business information to request a waiver.

Please contact me at rbrennis@lewisharrison.com for confirmation of the waiver.


D) SUPPORTING DOCUMENTS:

Please find enclosed the following documents to support the registration of **Stalosan F**:

- 1) Transmittal Document;
- 2) Application for Pesticide Registration (OPP ID. 296838);
- 3) Registration Fee Waiver Materials
- 4) Copy of the Minutes from the Pre-application Meeting.
- 5) Two (2) copies of the Confidential Statement of Formula;
- 6) Five (5) copies of the proposed product label;
- 7) Certification with Respect to Citation of Data form;
- 8) Data Matrix (product specific citations and cite all, agency and public);
- 9) Three (3) copies of the Prod chem. study;
- 10) Three (3) copies of the physical and chemical properties study;
- 11) Three (3) copies of the six acute toxicity studies;
- 12) Three (3) copies of the accelerated storage stability study; and
- 13) Two (2) copies of the note from product chemistry regarding requirements.

If you have any questions about the enclosed registration submission, please contact me either by telephone at 202-393-3903 ext. 20 or by e-mail at rbrennis@lewisharrison.com.

Sincerely,



Robert S. Brennis
Agent for,
ArchAngel LLC

Enclosures

EPA TRANSMITTAL DOCUMENT

SUBMISSION DATED: April 20, 2005

STUDY SUBMITTER: ArchAngel LLC

SUBMITTED IN SUPPORT OF: Stalosan F

EPA REGISTRATION NO.: 75526-R

REGULATORY ACTION: Application for Pesticide Registration – Old Chemical

STUDIES SUBMITTED: 9 Volumes

STUDY VOLUME 1 of 9: Chemistry Data for Stalosan F (April 8, 2005) by Robert Brennis; 13 pages non-confidential, 40 pages confidential appendix.

US EPA Guidelines 830.1550, 830.1600, 830.1650, 830.1670, 830.1700, 830.1750, & 830.1800

MRID Number: _____

STUDY VOLUME 2 of 9: Physical and Chemical Characteristics of Stalosan F (March 11, 2005) by Catherine Wo, Ph.D. 15 pages

US EPA Guidelines 830.6302, 830.6303, 830.6304, 830.6314, 830.7000, & 830.7300

MRID Number: _____

STUDY VOLUME 3 of 9: Acute Oral Toxicity Up and Down Procedures in Rats (March 10, 2005) by Daniel J. Merkel; 15 pages

US EPA Guidelines 830.1100 (2002)

MRID Number: _____

STUDY VOLUME 4 of 9: Acute Dermal Toxicity Study in Rats – Limit Test (March 10, 2005) by Daniel J. Merkel; 15 pages

US EPA Guidelines 830.1200 (1998)

MRID Number: _____

STUDY VOLUME 5 of 9: Acute Inhalation Toxicity Study in Rats – Limit Test (March 10, 2005) by Daniel J. Merkel; 23 pages

US EPA Guidelines 830.1300 (1998)

MRID Number: _____

EPA TRANSMITTAL DOCUMENT – page 2
ArchAngel LLC, Stalosan F

STUDY VOLUME 6 of 9:

Primary Eye Irritation Study in Rabbits (March 10, 2005) by Daniel J. Merkel; 16 pages

US EPA Guidelines 830.2400 (1998)

MRID Number: _____

STUDY VOLUME 7 of 9:

Primary Skin Irritation Study in Rabbits (March 10, 2005) by Daniel J. Merkel; 16 pages

US EPA Guidelines 830.2500 (1998)

MRID Number: _____

STUDY VOLUME 8 of 9:

Dermal Sensitization Study in Guinea Pigs (Buehler Method) (March 10, 2005) by Daniel J. Merkel; 24 pages

US EPA Guidelines 830.2600 (2003)

MRID Number: _____

STUDY VOLUME 9 of 9:

Accelerated Storage Stability Study (February 3, 2005) by Catherine Wo, Ph.D.; 17 pages

US EPA Guidelines 830.6313 & 830.6317

MRID Number: _____

[bracketed phrases are optional text]

Stalosan F

Adsorb Plus (additional brand name)

For use in livestock housing, to improve the external environment and flooring conditions around animals.

Lack of moisture assists in the reduction of non-public health microorganisms

Stalosan F adsorbs moisture, ammonia, hydrogen sulphide and other gases.

[Inhibits the growth of bacteria and fungi]

[Eliminates odor causing bacteria, fungi, mold, and mildew]

[Inhibits the growth of non public health bacteria]

[Inhibits the growth of fungi]

[Reduces ammonia and moisture]

[Eliminates odor causing bacteria, fungi, mold, and mildew]

[Eliminates odors associated with bacteria, mold, and mildew]

[Deodorizes], [Deodorizer]

[Controls and inhibits odor causing bacteria, fungi, mold, and mildew]

Caution

Keep Out of Reach of Children

FIRST AID

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Active Ingredients:

Copper Sulfate Pentahydrate*2.66%

Inert Ingredients..... 98.54%

TOTAL.....100.00%

* Metallic Copper Equivalent Equal-----0.68%

EPA Reg. No. 75526-R

ArchAngel LLC

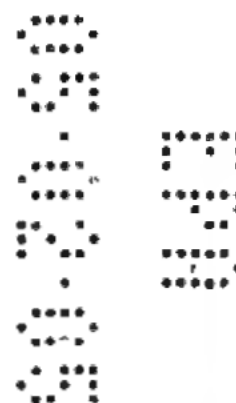
636 Hampshire, Suite 208

Quincy, IL 62301

phone number

EPA est. No. 75613-DNK-01

25 Kg. Net Wt.



PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms.

Directions for Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Add 1 pound of **Stalosan F** to every 100 sq. ft. If the area is badly affected, increase the dosage slightly. Initially apply **Stalosan F** once a day for 3 days. Continue treatment once a week, thereafter. **Stalosan F** can be applied while animals are present.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration and in an area inaccessible to children.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Once bag is empty, dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address and Telephone Number Kent Adams, ArchAngel LLC, 636 Hampshire, Suite 208 Quincy, IL 62301	EPA Registration Number/ File Symbol 75526-R
Active Ingredient(s) and/or representative test compound(s): Copper sulfate pentahydrate	Date 4/15/05
General use pattern(s) (list all those claimed for this product using 40 CFR Part 158) Animal Containment Facility	Product Name Stalosan F

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

- ☐ I am responding to a Data Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

- | | |
|---|---|
| <input checked="" type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). | <input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). |
|---|---|

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

- ☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data Call-In Notice is supported by all data submitted or cited in the application for registration, the form for reregistration, or this Data Call-In response. In addition, if cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original submitter or that I have obtained the written permission of the original submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the written permission of the original data submitter to use this study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Signature

Date

4-15-05

Typed or Printed Name and Title

Kent Adams Secretary/Treasurer

From: Turpin.Robert@epamail.epa.gov
Sent: Thursday, October 28, 2004 4:20 PM
To: Robert Brennis
Subject: Data requirements for a formulated copper sulfate product

Bob,

As promised, I conferred with Karen Hicks, Team Leader of the Chemistry and Toxicology Team, and the following was determined based on the information you provided:

(a) 830.1700 - Preliminary Analysis (5 batches) is not required because the product is a formulated product and the active ingredient is considered to be a commonly used chemical. In the absence of this requirement, however, the Agency will require a Certificate of Analysis (CoA) and a Material Safety Data Sheet (MSDS);

(b) Series 830, Group A requirements are necessary with your submission. Further, because the source of the active ingredient is not registered with the Agency Group B data is also required. If the applicant chooses to self-certify Group B data he may do so using the forms provided by the Agency on its web-site. Otherwise, such data must be developed under GLP standards;

(c) 830.6317 - Storage Stability is required, however, the applicant may choose to perform the accelerated test protocol at an elevated temperature (40 to 54 degrees C). This requirement is a GLP study. The study of corrosion characteristics of the product in its packaging materials is usually combined with the study of storage stability.

I hope this answers your questions. Should you have further questions, please do not hesitate to contact.

Bob

From: Turpin.Robert@epamail.epa.gov
Sent: Thursday, October 28, 2004 4:20 PM
To: Robert Brennis
Subject: Data requirements for a formulated copper sulfate product

Bob,

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(b) Series 830, Group A requirements are necessary with your submission. Further, because the source of the active ingredient is not registered with the Agency Group B data is also required. If the applicant chooses to self-certify Group B data he may do so using the forms provided by the Agency on its web-site. Otherwise, such data must be developed under GLP standards;

(c) 830.6317 - Storage Stability is required, however, the applicant may choose to perform the accelerated test protocol at an elevated temperature (40 to 54 degrees C). This requirement is a GLP study. The study of corrosion characteristics of the product in its packaging materials is usually combined with the study of storage stability.

I hope this answers your questions. Should you have further questions, please do not hesitate to contact.

Bob

LEWIS &
HARRISON

Consultants in Government Affairs

122 C Street, N.W. Suite 740
Washington, DC 20001
telephone 202.393.3903
fax 202.393.3906

October 28, 2004

Tony Kish
U.S. EPA
Crystal Mall 2 (7510C)
1801 Bell Street
Arlington, VA 22202

Subject: ArchAngel LLC Application for Registration
Stolasan F
Label Claims

Dear Tony:

We had agreed to send prospective non-public health claims that may be acceptable on the product we intend on registering. If you remember, although we have data that shows the product works to remove bacteria and viruses, it doesn't meet the disinfection or sanitization standard set by the Agency. This product, however, is highly beneficial for use in animal containment facilities and we need some reasonable claims in order to register this product and bring it to the marketplace.

Below is a chart to identify the claims and reasons why the claims should be acceptable. Please review these claims so that we may discuss how these claims will be shown on our proposed label.

Claims	Justification
Prevents cross-contamination between treated surfaces claim	Tony Kish suggested in the meeting
Adjunct to manual disinfection	Nancy Whyte suggested in the meeting
Lack of moisture assists in the reduction of microorganisms	Nancy Whyte suggested in the meeting
moisture reduction inhibits the growth of fly larvae	This is a true statement concerning moisture reduction
Absorbs moisture, ammonia, hydrogen sulphide and other gases	Non-Pesticidal
Inhibits the growth of Bacteria	Claim is allowed on non-public health products
Inhibits the growth of Fungi	Fungi is non-public health
Inhibits the growth of Viruses	A lesser claim for viruses than normal public health
Reduces Ammonia and Moisture.	Non-pesticidal
Bacteriostatic or bacteriostat	Non-public health claim allowed on non-public health products (EPA Reg. No. 35900-19)
Eliminates odor causing bacteria, fungi, mold, and mildew	Common non-public health claim
Eliminates odors associated with bacteria, mold, and mildew	Common non-public health claim
Deodorizer	Common non-public health claim
Controls and inhibits odor causing bacteria, fungi, mold, and mildew	Common non-public health claim

Thank you in advance for reviewing these claims prior to the submission of our application. If there is any additional information I can provide in order to assist you, please do not hesitate to call me at 202-393-3903, ext. 20 or email me at bbrennis@lewisharrison.com.

Sincerely,

RS\

Robert S. Brennis
Agent for ArchAngel LLC

EPA Meeting Notes October 12, 2004

ArchAngel LLC attended a meeting to establish the registration requirements for Stalosan F from the EPA. Those present were Bob Brennis, Kent Adams, Jan Storgaard, Glen Gabriel, and from the EPA were Tony Kish and Nancy White.

Topics:

1. Active ingredient identified as Copper Sulfate Pentahydrate. ArchAngel also supplied all of the CAS numbers for the ingredients used in Stalosan F. Nancy Whyte had an issue regarding whether all of the perfume ingredients were identified by EPA. She checked and found that all but one is identified.
2. ArchAngel presented the identities of two products that are registered by EPA with the use sites for animal confinement areas included. Tony appeared to confirm that this registration would be an old chemical registration with existing use sites.
3. The fact that this product is formulated with an unregistered source, will require the submission of full product chemistry data, and will include the citation or submission of generic data. As part of the chemistry data, ArchAngel will need to include formulation methods and a 5-batch analysis of the active ingredient contained in the product.
4. We also discussed the proposed label and found that we are not qualified for the claims that we have listed till we meet the non-porous surface claims "kill rate" of the 10-minute protocol. Some of the possible alternatives were discussed like moisture and mold control claims, as well as possible cross-contamination claims, or the adjunct claims, or the residual claims, or possibly claiming reducing bacterial and viral growth by reducing the moisture in the environment.
5. We spent considerable time on how the competitors are illegally listing claims for products without registrations. We discussed the Zorbisan advertisement and Tony and Nancy said they believed it to be a violation of the law.
6. Bob Brennis lead the discussion to confirm all that needs to be submitted and accepted to obtain a registration. Tony outlined the required submission material, which included the standard administration materials, full product chemistry, the

six-pack of acute toxicity data, and citation of generic data for the active ingredient. Also it was discussed that we may be eligible for a waiver of the \$4,000 fee for registration due to volume of sales of ArchAngel.

7. Tony indicated that the timeframe for registration would be approximately a year. This would include generation of the data and two or three cycles for having to rework the registration paperwork to meet the EPA standards and resubmit our registration request. Each cycle would be 120 days for a non-fast track old chemical submission. It is reasonable to assume that if we get all of the submission correct, with only minor deficiencies, it would take only one cycle.
8. Tony asked that we submit a list of claims that we believe would be acceptable for this product, prior to the submission of the application. The discussion was predicated on the concept that we would obtain a registration without any public health claims on the label, although ArchAngel does have data that shows the product is efficacious when allowed to work beyond 10 minutes. Tony suggested that we may be able to use a "prevents cross-contamination between treated surfaces" claim. Nancy mentioned the claim "adjunct to manual disinfection". They also seemed to like the claim "lack of moisture assists in the reduction of microorganisms". ArchAngel is preparing a list and will submit it shortly to the Agency so that we can agree on what claims may be acceptable prior to submission of the application.

Confidential Statement of Formula may be entitled to confidential treatment